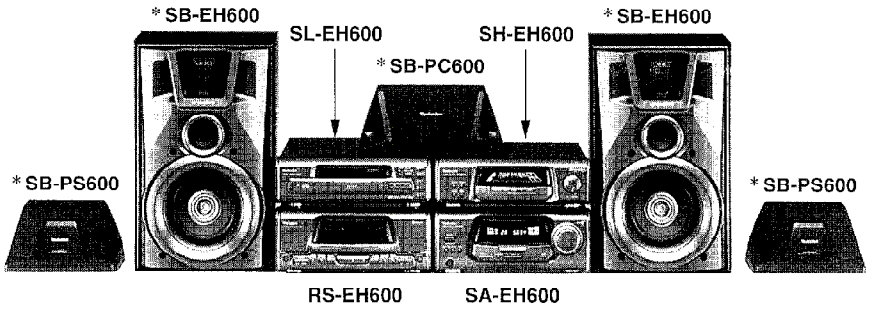
ORDER NO. AD9802037C2

# Service Manual

Tuner/Amplifier

Tuner/Amplifier

# SA-EH600




**Colour**

(H) ..... Gray Type

**Areas**

(E) ..... Europe
(EB) ..... Great Britain.
(EG) ..... Germany and Itary.
(EP) ..... Russia.

| System | SC-EH600 |
|---|---|
| Sound Processor | SH-EH600 |
| Tuner / Amplifier | **SA-EH600** |
| CD Changer | SL-EH600 |
| Cassette Deck | RS-EH600 |
| Front Speakers* | SB-EH600 |
| Center Speaker* | SB-PC600 |
| Surround Speakers* | SB-PS600 |

* : Made in PAES

**Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.**

## Specifications

### Amplifier Section

| | |
|---|---|
| **Power output (at HIGH terminal) :** | |
| **DIN 1 kHz, THD 1%, both channels driven ;** | 2 × 70 W(6 Ω) |
| **RMS 1 kHz, THD 10%, both channels driven ;** | 2 × 100 W(6 Ω) |
| **PRO LOGIC mode (at HIGH terminal) :** | |
| **DIN 1 kHz, THD 1%** | |
| **MAIN (both channels driven) ;** | 2 × 50 W(6 Ω) |
| **SURROUND ;** | 50 W(4 Ω + 4 Ω) |
| **CENTER ;** | 50 W(8 Ω) |
| **RMS 1 kHz, THD 10%** | |
| **MAIN (both channels driven) ;** | 2 × 70 W(6 Ω) |
| **SURROUND ;** | 70 W(4 Ω + 4 Ω) |
| **CENTER ;** | 70 W(8 Ω) |
| **Total harmonic distortion :** | |
| **Rated power at 1 kHz ;** | 1 %(6 Ω) |
| **Half power at 1 kHz ;** | 0.09 %(6 Ω) |
| **Load impedance :** | |
| **MAIN (HIGH/LOW) ;** | total impedance 6 Ω |
| **SURROUND ;** | 4 – 8 Ω |
| **CENTER ;** | 8 Ω |
| **Input sensitivity/impedance:** | |
| **PHONO ;** | 2.5 mV/47 kΩ |
| **EXTERNAL ;** | 250 mV/15 kΩ |
| **Output level:** | |
| **EXTERNAL RECOUT ;** | 250 mV/1.5 kΩ |
| **S.WOOFER :** | |
| **Center frequency ;** | 70 Hz |
| **LEVEL (VOL –20 dB)** | MID +8 dB |
| | MAX +12 dB |

### FM Tuner Section

| | |
|---|---|
| **Frequency range ;** | 87.50 – 108.00 MHz (0.05 MHz steps) |
| **Sensitivity ;** | 1.8 µV (IHF usable) |
| **S/N 26 dB ;** | 1.5 µV |
| **S/N:** | |
| **MONO ;** | 70 dB (75 dB, IHF) |
| **Antenna terminal(s) ;** | 75 Ω (unbalanced) |

### AM Tuner Section

| | |
|---|---|
| **Frequency range:** | 522 – 1611 kHz (9 kHz steps) |
| | 530 – 1620 kHz (10 kHz steps) |
| **Sensitivity (S/N 20 dB) ;** | 500 µV/m |

### Timer Section

| | |
|---|---|
| **Clock :** | Quartz-lock type |
| **Functions :** | Play timer (1 time), Rec timer (1 time), Sleep (120 min, 30 min intervals) |
| **Setting :** | 1 minute – 23 hours 59 minutes (1 min intervals) |

### General

| | |
|---|---|
| **Power supply :** | |
| **For (E), (EG), (EP) areas ;** | AC 230V, 50 Hz |
| **For (EB) area ;** | AC 230–240 V, 50 Hz |
| **Power consumption :** | 205 W |
| **Dimensions :** | 287 (W) × 118.5 (H) × 343.5 (D) mm |
| **Weight :** | 5.0 kg |

**Notes:** Specifications are subject to change without notice.
Weight and dimensions are approximate.

**⚠WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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# Before Repair

(1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702, C703 and C704) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V or 240 V.

| Power supply voltage | AC 230 V | AC 240 V |
|---|---|---|
| Consumed current 50 Hz | 140 ~ 400 mA | 140 ~ 400 mA |

# Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

* No sound is heard when the power is switched ON.
* Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

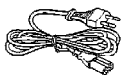
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

**Note:**

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

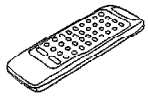
# Accessories

- **AC power supply cord**
  For (E), (EG), (EP) areas (RJA0019-X) ... 1 pc.

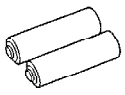


  For (EB) area (RJA0053-1X) ..... 1 pc.

- **Remote control transmitter**
  (RAK-CH219WH) ..... 1 pc.



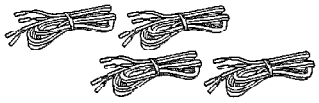
- **Batteries**
  (UM-4, "AAA", R03) ..... 2 pcs.
  **Note:** These are available on sales route.



- **FM indoor antenna**
  (RSA0007) ..... 1 pc.

- **AM loop antenna**
  (RSA0022-J) ..... 1pc.

- **Speaker cords**
  (REE0393) ..... 2 pcs.
  (REE0853) ..... 2 pcs.



- **Antenna plug adaptor (SJP9009)**
  For (EB) only (SJP9009) ..... 1 pc.

# ■ Caution for AC Main Lead

**("EB" area code model only)**

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♆ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

**CAUTION!**
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

## IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

**WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.**

**THIS PLUG IS NOT WATERPROOF—KEEP DRY.**

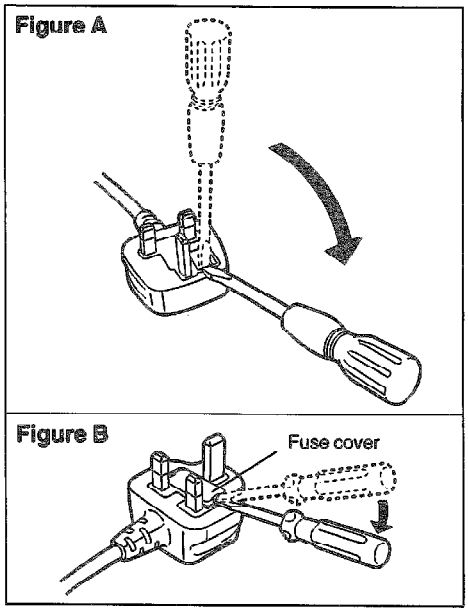
## Before use

Remove the connector cover.

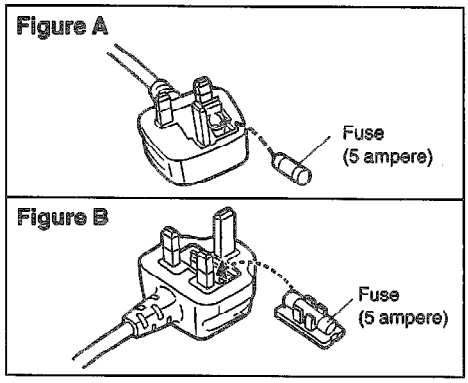
## How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

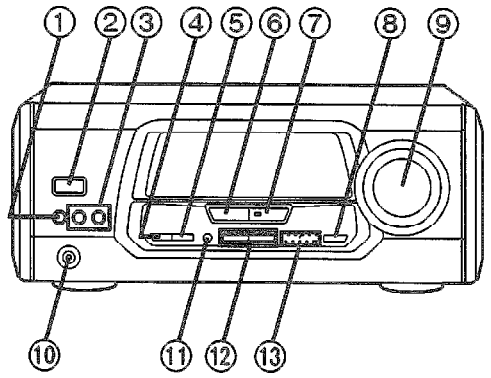
1. Open the fuse cover with a screwdriver.




2. Replace the fuse and close or attach the fuse cover.



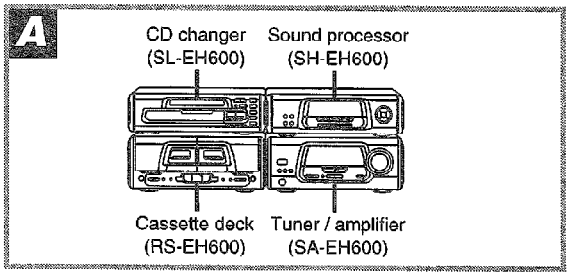
# ■ Location of Controls

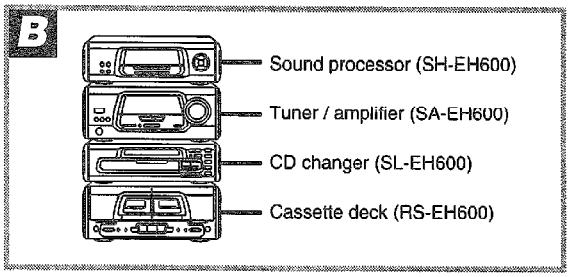


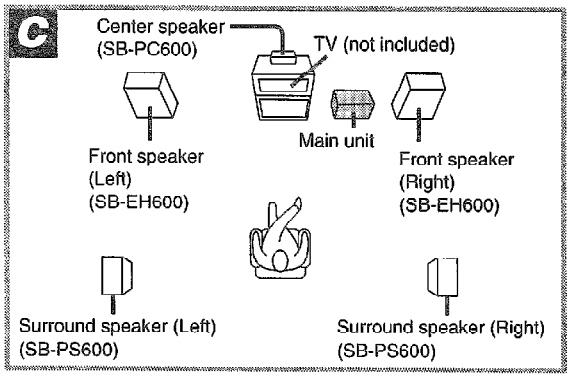

① Clock/timer button (CLOCK/TIMER)
② Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)
③ Timer on/off buttons (◴ PLAY, ◴ REC)
④ Tuning mode select button (TUNING MODE)
⑤ Set button (SET)
⑥ Source input select button (INPUT SELECTOR)
⑦ Tuner/band select button and indicator (TUNER/BAND)
⑧ Super woofer button (S. WOOFER)
⑨ Volume control (VOLUME)
⑩ Headphones jack (PHONES)
⑪ FM mode select button (FM AUTO/MONO)
⑫ Tuning buttons (TUNING, V, Λ)

For (EG) and (EP) areas
⑬ RDS display mode select buttons (RDS PS–DISP MODE–PTY)

# ■ Installation




## Locating the components

Side-by-side set-up A
Stacking B

## Placement of speakers C

As well as enjoying normal stereo reproduction with the left and right front speakers, a center speaker and surround speakers can also be connected to the unit in order to enjoy the sound performance of DOLBY PRO LOGIC Systems.

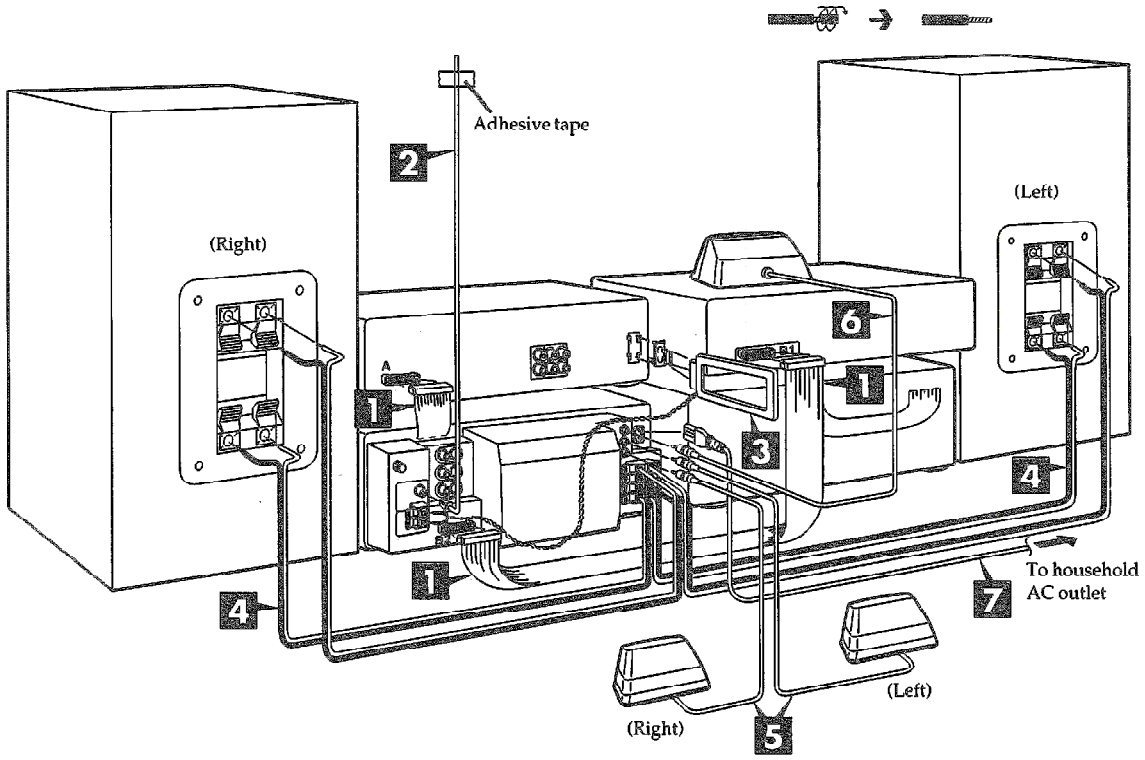
We recommend that surround speakers be placed on the side of or slightly behind the listener, and about one meter higher than ear level.
However the position should be adjusted to your personal preference, because the effect varies to some degree depending upon the type of music and the music source.

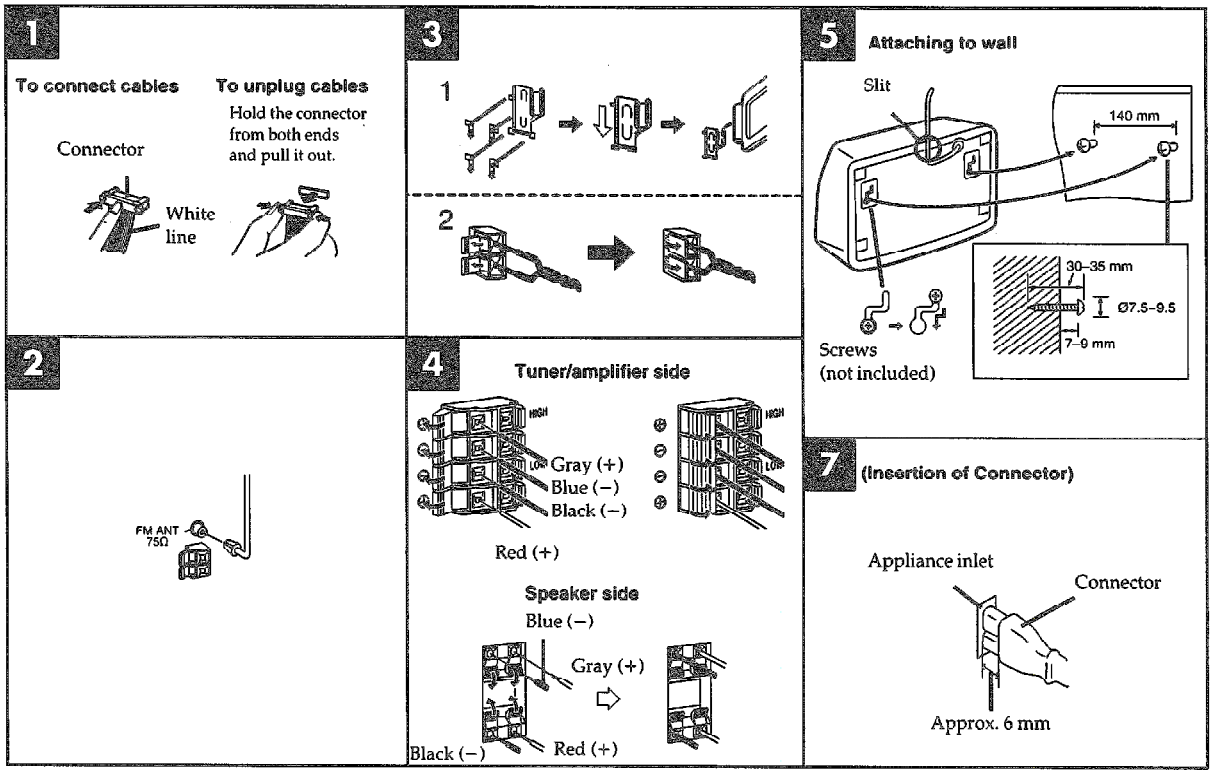
**Note for front/center speakers**
These speakers are made so as to be able to be used in close proximity to the TV, but irregular coloring may result due to how the system is placed. If such distortion occurs, turn off the TV for sometime between 15 and 30 minutes. The demagnetizing function of the TV will eliminate the distortion. If the irregular coloring is still visible, then move the speaker further away from the TV.
Please note that if there is a magnetic object near the TV, irregular coloring may result due to the interaction between the TV and the speakers.

# ■Connections

Connect the AC power supply cord after you have connected all other cables.

To prepare the AM loop antenna wire, FM indoor antenna and speaker cords, twist the vinyl cover tip and pull off.



### 1 Connect the flat cables.

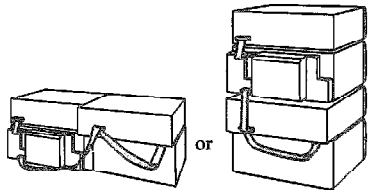
1. Connect the shorter flat cable from the tuner/amplifier to terminal A on the sound processor.
2. Connect the longer flat cable from the cassette deck to terminals B1 and B2.

Note

Do not try connecting or disconnecting the flat cables while the power is switched to ON.

**After connection:**

Keep cables as flat against the back of the unit as possible.




### 2 Connect the FM indoor antenna.

Tape the antenna to a wall or column, in a position where radio signals are received with the least amount of interference.

Note

When you cannot get good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna (not included).

### 3 Connect the AM loop antenna.

1. Attach the antenna holder to the rear panel of the sound processor.
   Then clamp the antenna into the antenna holder.
2. Connect the antenna terminal to the rear panel of the tuner/amplifier.

Note

To minimize noise pickup, bundle the loop antenna cord using tape or the like to keep the flat cables away from the AM loop antenna cord.

### 4 Connect the right (R) and left (L) front speaker cables.

Connect each end of the speaker cables to the terminal lever of the same color.

Note

- To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker wires.
- Be sure to connect only positive (red or gray) wires to positive (+) terminals and negative (black or blue) wires to negative (−) terminals.
- Left and right front speakers are exactly the same.

### 5 Connect the surround speaker cables.

Check the L (Left) or R (Right) channels indication on the underside of the speakers for correct placement. Place the speakers with the Technics logo facing forward the listening position.

**Attaching to wall**

- Set speaker onto screws and slide through bracket kink to lock into position.
- The wall or pillar on which the speaker systems are to be attached should be capable of supporting a weight of 5 kilograms.
- Feed wire through slit to fix from center-top of speaker.

### 6 Connect the center speaker cables.

### 7 Connect the AC mains lead.

**(United Kingdom only)**
**BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 3 BEFORE PROCEEDING TO STEP 7.**

**Insertion of Connector**

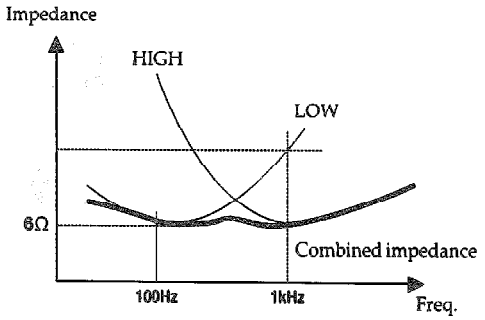
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.

## Speaker Caution

**Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speaker, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**

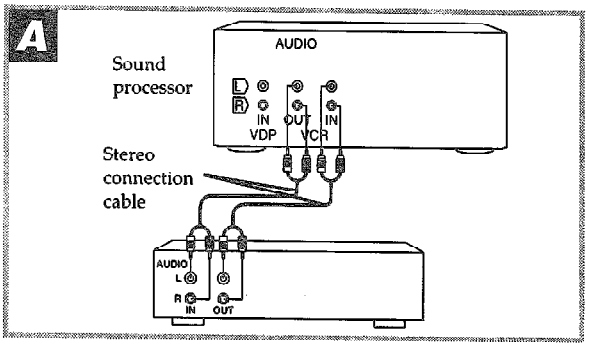
**When speakers are connected to the LOW and HIGH terminals on the back of the main unit**

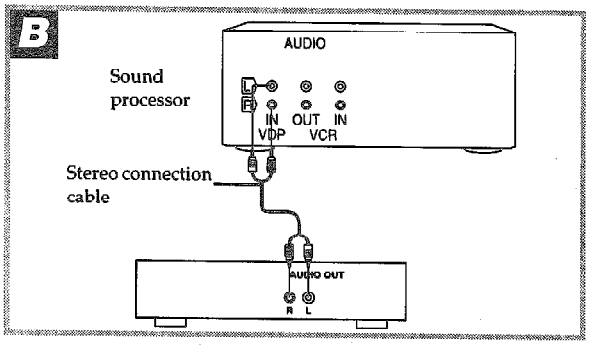
They are designed to have a combined impedance of 6Ω.

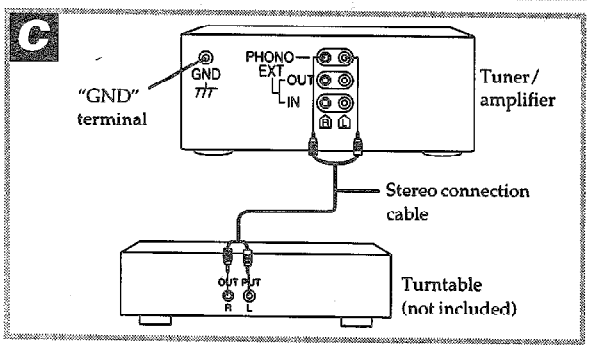


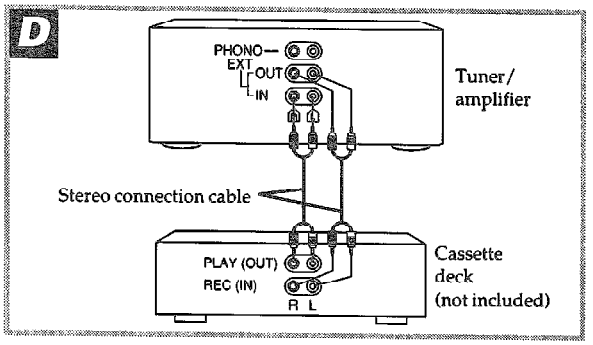

Note

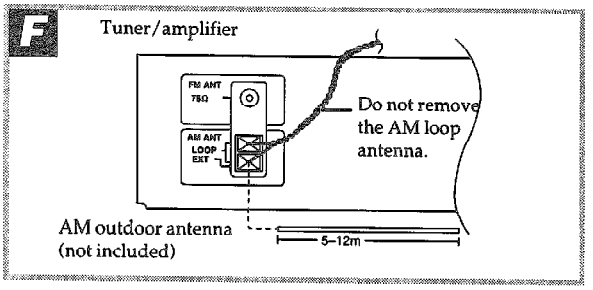
Never use speakers other than those supplied. (SB-EH600) For instance, if you connect speakers with an impedance of 6Ω each and plug them into the LOW and HIGH terminals, you will only have a combined impedance of 3Ω



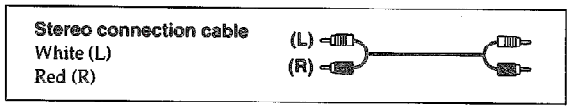




## External unit connections

- Make sure that the power supply for all components has been turned off before making any connections.
- For details, refer to the operating instructions of the units which are to be connected.
- All peripheral components and cables sold separately.




**A Video Cassette recorder**

**B Laser disc player**

**C Turntable**

"GND" terminal:
This terminal is for a ground wire.

**D Cassette deck**

## Optional antenna connections

You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc.

### FM outdoor antenna (not included) E

**Note**

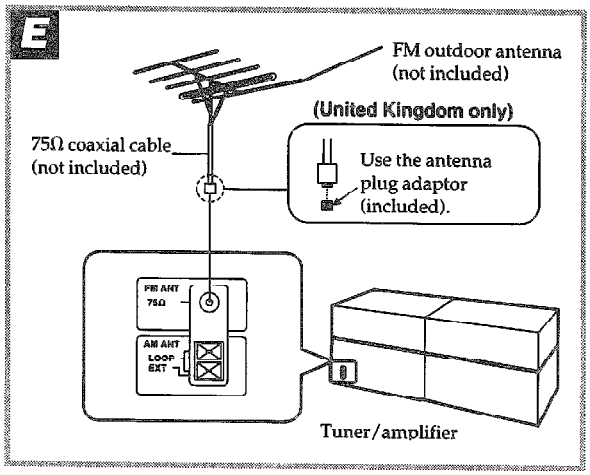
An outdoor antenna should be installed by a qualified technician only.

### AM outdoor antenna (not included) F

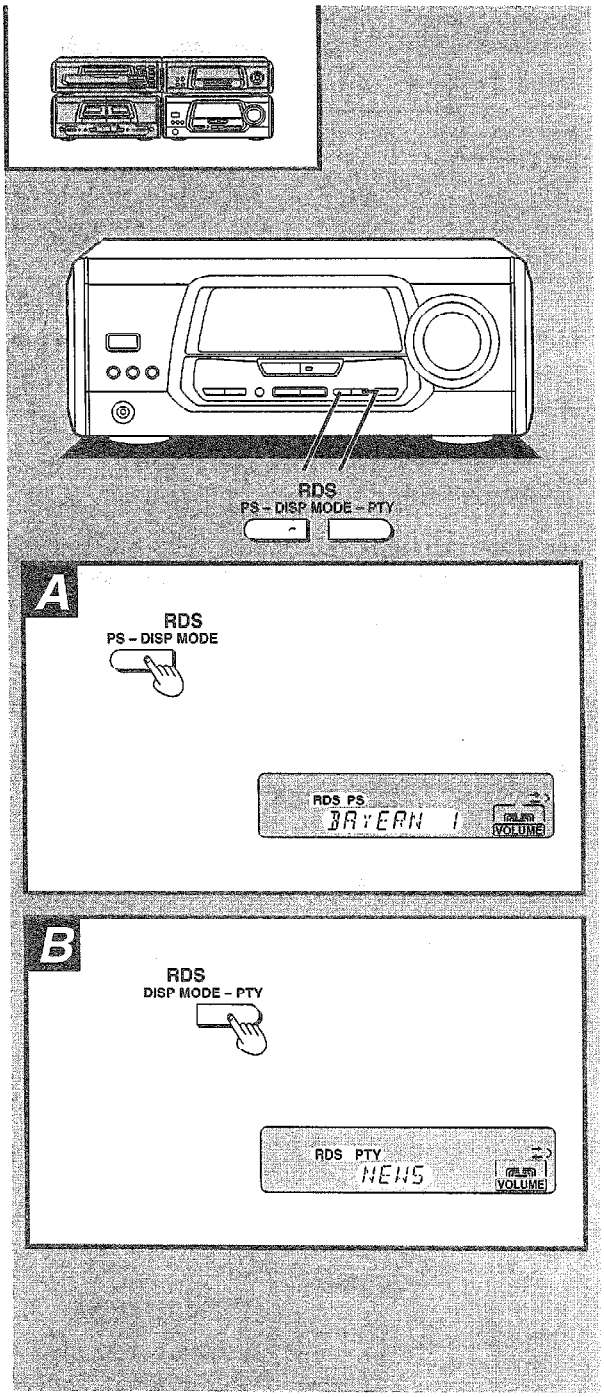
Connect the outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

**Note**

When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.



# ■ Enjoying RDS Broadcasts [For (EG) and (EP) areas]




This unit lets you take advantage of the Radio Data System (RDS) in areas where RDS broadcast services are received. This advanced system provides useful information, utilizing a 57 kHz subcarrier above the audible range, in addition to the main FM signal.

## Types of RDS and functions

**To display the name of a broadcast station (PS display):**
When this system receives a PS signal in an RDS broadcast, the name of the broadcast station is shown on the display.

**To display the type of a program (PTY display):**
While the PTY signal is being received, the name of the type of program currently being broadcast can be shown on the display.

**Notes**

- Even if an FM broadcast station is transmitting RDS signals, the functions of this system may not be able to utilize these signals if the signal quality is too poor.
- "PTY" may not be available in some areas. (Future function)

## To display the name of a broadcasting station [A]

**(When the FM station is received)**
**Press PS-DISP MODE.**
If the FM broadcast being received provides the RDS service ("RDS" indicator will light), the name of the broadcast station and "PS" indicator will be shown on the display of this system.
Each time you press the button, frequency display and PS display will appear alternately.

## To display the type of a program [B]

**(When the FM station is received)**
**Press DISP MODE-PTY.**
If the FM broadcast being received provides the RDS service ("RDS" indicator will light), the type of the program and "PTY" indicator will be shown on the display of this system.
Each time you press the button, frequency display and PTY display will appear alternately.

**Note**

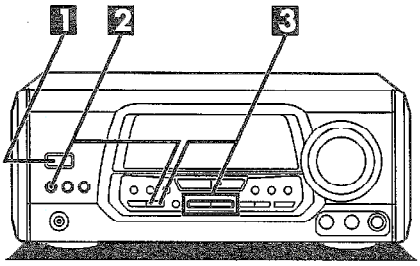
When receiving a broadcast station, in PTY mode, which does not transmit PTY, the display will not show "NO PTY" automatically.

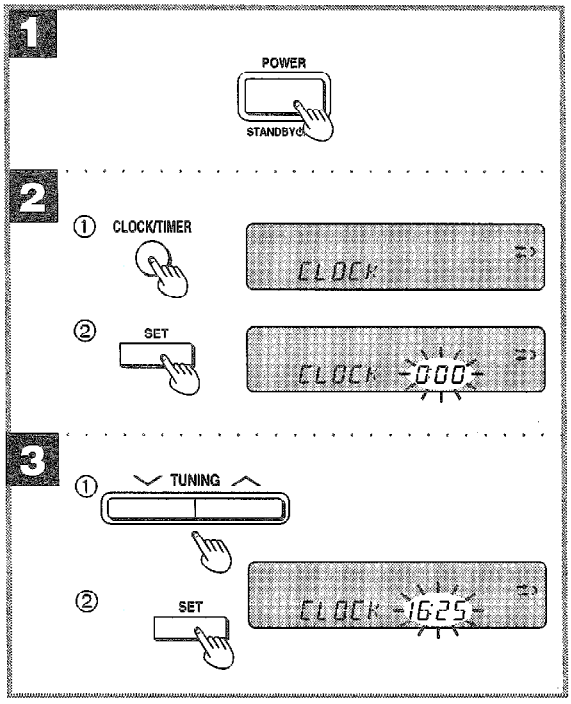
## About the PTY display

There are a total of 15 PTY displays on this unit. The table gives an explanation of each display.

| Display | Explanation |
|---|---|
| NEWS | Short accounts of facts, events and publicly expressed views, reportage and actuality. |
| AFFAIRS | Topical program expanding or enlarging upon the news, generally in different presentation style or concept, including documentary debate, or analysis. |
| INFO | Program whose purpose is to impart advice in the widest sense, including meteorological reports and forecasts, consumer affairs, medical help, etc. |
| SPORT | Program concerned with any aspect of sport. |
| EDUCATE | Program intended primarily to educate. |
| DRAMA | All radio plays and serials. |
| CULTURE | Programs concerned with any aspect of national or regional culture, including religious affairs, philosophy, social science, language, theatre, etc. |
| SCIENCE | Programs about the natural sciences and technology. |
| VARIED | Used for mainly speech-based programs, usually of a light-entertainment nature not covered by above categories. Examples are: quizzes, panel games, personality interviews, comedy and satire. |
| POP M | Commercial music which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts. |
| ROCK M | Contemporary modern music, usually written and performed by young musicians. |
| M.O.R.M | (Middle of the Road Music). Common term to describe music considered to be "easy-listening", as opposed to Pop, Rock or Classical. Music in this category is often, but not always, vocal, and usually of short duration (<5 min.). |
| LIGHT M | Classical Musical for general, rather than specialist, appreciation. Examples of music in this category are instrumental music and vocal or choral works. |
| CLASSICS | Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera. |
| OTHER M | Musical styles not fitting into any of the above categories. Particularly used for specialist music, of which Jazz, Rhythm & Blues, Folk, Country, and Reggae are examples. |

# ■Setting the time




The tuner/amplifier displays the time, frequency and other information on CDs and tapes.

This is a 24-hour display clock.

The figure shows how to set the time for 16:25.

**1 Switch on the power.**

**2 ① Press CLOCK/TIMER to show "CLOCK".**

Every time you press the button, the indication changes in the order of CLOCK→◴ PLAY→◴ REC→Original display.

**Within 5 seconds:**

**② Press SET.**

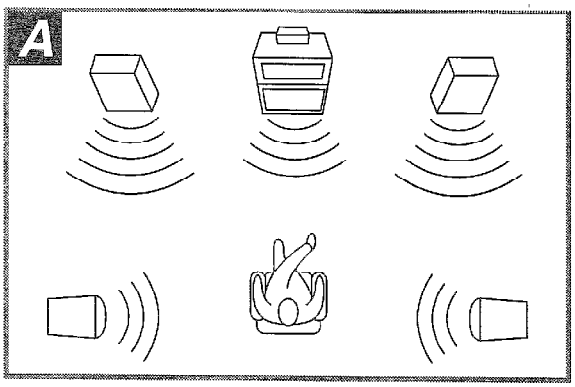
**3 ① Press TUNING (∨ or ∧) to set the present time on the display.**

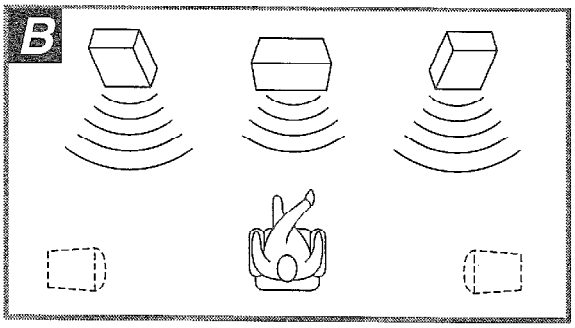
The time display can be changed in one minute units by tapping the buttons, and quickly by holding down the buttons.

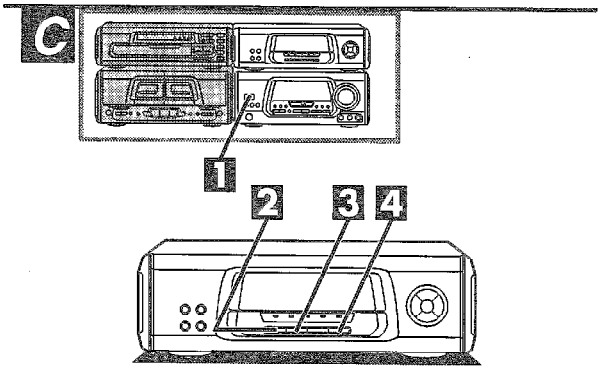
**② Press SET.**

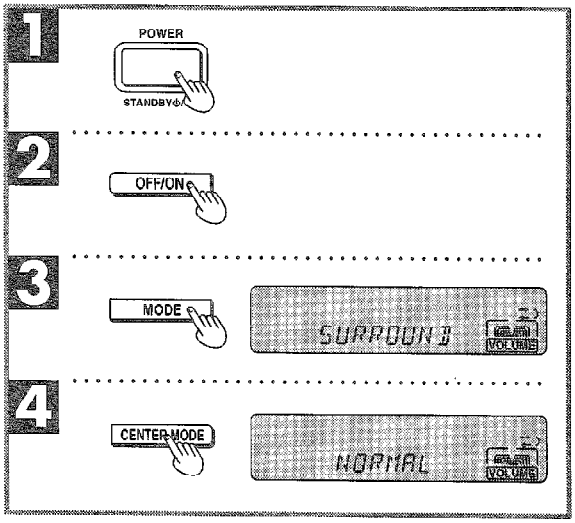
The display will return to the previous display after about 3 seconds.

# Enjoying Sound with DOLBY PRO LOGIC




By combining front, center and surround speakers, you can enjoy the SURROUND mode which conveys a feeling of presence or the 3 STEREO mode which conveys a feeling of orientation.

## SURROUND A

By reproducing the feeling of depth and movement of sound, video software or compact discs recorded with DOLBY SURROUND provide the listener with the sensations of a movie theater.

To enjoy SURROUND, be sure to connect the surround speakers.

## 3 STEREO B

You can enjoy audio/video sources with clear sound, more presence and enhanced orientation. 3 STEREO can be used with sources not recorded in DOLBY SURROUND.
To enjoy 3 STEREO, be sure to connect the center speaker.

Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol ⧈ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

## Setting the center mode C

For Dolby Pro Logic systems, center mode setting is necessary to play back bass sounds effectively. Set the center mode in accordance with the size of your center speaker.

**1 Switch on the power.**

**2 Press DOLBY PRO LOGIC OFF/ON to select ON.**

**3 Press MODE to select "SURROUND" or "3 STEREO".**

Each time you press the button, the display will change as follows:
SURROUND→3 STEREO
↑_____↓
The selected mode's indicator lights.

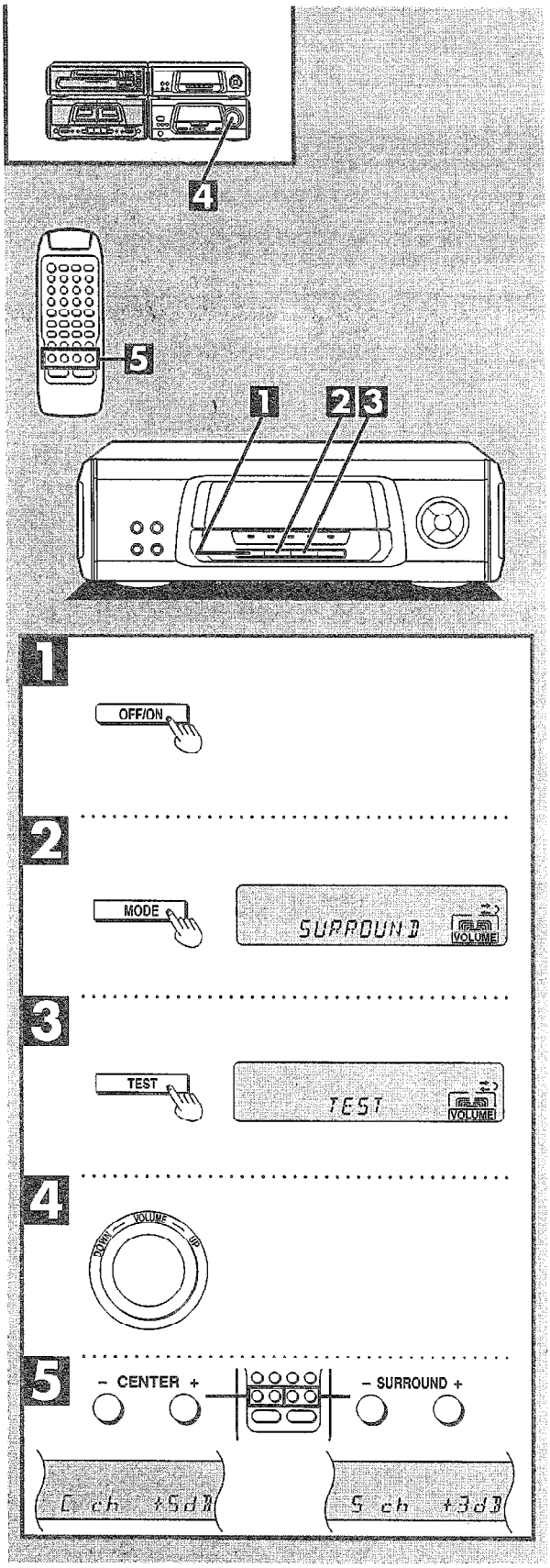
**4 Press CENTER MODE to select "NORMAL" mode.**

Each time you press the button, the display will change as follows:
NORMAL→WIDE→PHANTOM
↑_____↓
The selected mode's indicator lights.

Note
"PHANTOM" will not be displayed when you select "3 STEREO" in step 3.

**NORMAL:**
When the center speaker is smaller than the front speakers
**WIDE:**
When the center speaker is the same size or larger than the front speakers
**PHANTOM:** SURROUND only
When no center speaker is connected

Note
In the PHANTOM mode, the sound which would have been sent to the center speaker will be divided equally between both the left and right front speakers.




## Adjusting speaker output level

In order to reproduce the movement of the sound and its clear orientation, it is important to adjust the output level of each speaker. Adjust output to the correct levels while listening to the test signal.

**1 Press DOLBY PRO LOGIC OFF/ON to select ON.**

**2 Press MODE to select "SURROUND" or "3 STEREO".**

Each time you press the button, the display will change as follows:

SURROUND→3 STEREO
↑ ↓

**3 Press TEST to output a test signal.**

The test signal is emitted in the following order:

**For SURROUND mode**

Front speaker (left)——————→Center speaker
↑ ↓
Surround speakers (left, right)←——Front speaker (right)

**Note**

The test signal is not emitted from the center speaker when the center mode is on PHANTOM.

**For 3 STEREO mode**

Front speaker (left)→Center speaker→Front speaker (right)
↑ ↓

**4 Turn VOLUME to set the volume level normally used for enjoying the source.**

**5 Press CENTER (–) or (+) or SURROUND (–) or (+) on the remote control to adjust the output level balance.**

Adjust the output level of each speaker from the listening position until they are all identical.

Output levels can be varied within a range of ±12 dB with front speaker output level serving as the zero point.

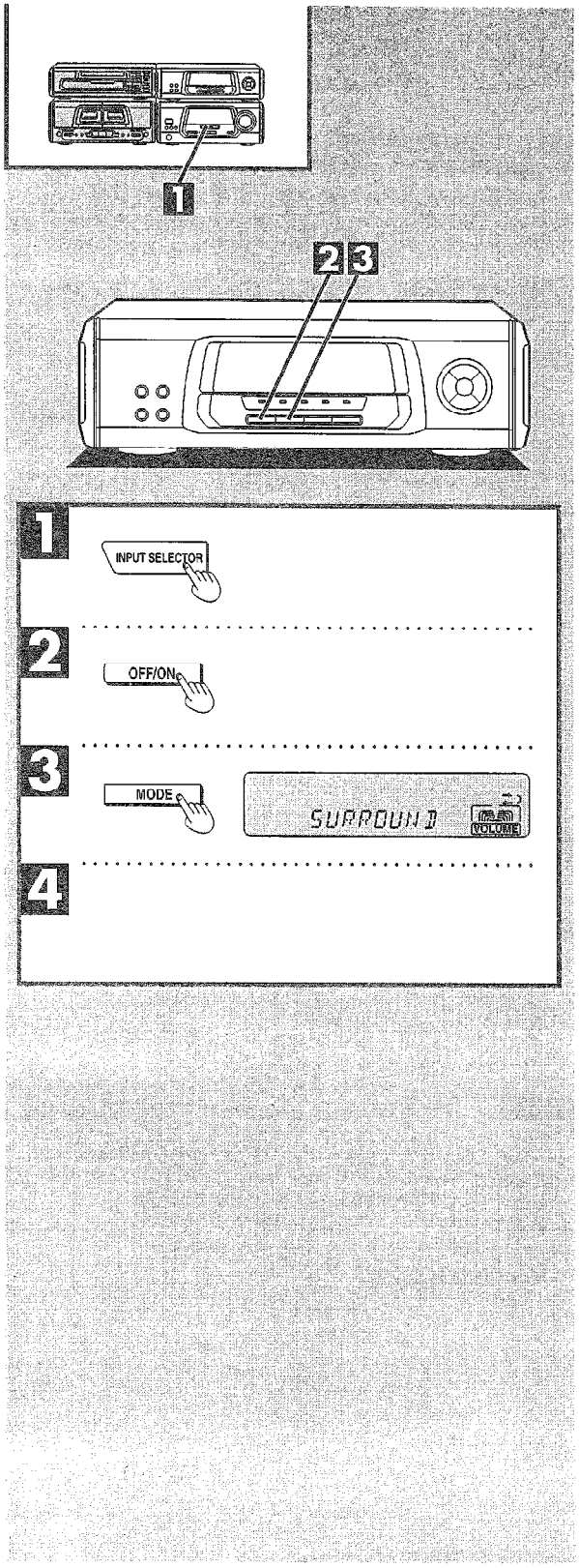
**Notes**

- The test signal is output only by the speaker you are now adjusting and does not repeat the sequence until adjustments are complete.
- Remember you cannot adjust the output level of the surround speakers if you selected the 3 STEREO mode in step 2.

---

**To stop the test signal:**

Press TEST.




## Enjoying SURROUND or 3 STEREO

Before trying anything, have you set the center mode and adjusted speaker output level?
When viewing a video, turn on the power supply for the TV and set the TV to video mode.

**1 Press INPUT SELECTOR to select the desired external source.**

Each time you press this button, sound sources will be switched as follows.

TUNER→CD→TAPE
↑ ↓
PHONO←VDP←VCR←EXT

These indications correspond to terminals on the rear panel of the sound processor or tuner/amplifier. Switch the displayed indication to the source you want to use.

**2 Press DOLBY PRO LOGIC OFF/ON to select ON.**

**3 Press MODE to select "SURROUND" or "3 STEREO".**

**4 Start the desired source.**

To operate external sources, refer to the operating instructions provided with the specific unit.

**Note**

When using SURROUND, use software recorded in Dolby Surround.

---

**To turn off the DOLBY PRO LOGIC systems:**

Press DOLBY PRO LOGIC OFF/ON to select "OFF".

**Note**

You cannot record acoustical effects produced in the SURROUND and 3 STEREO modes.

# Operation Checks and Main Component Replacement Procedures

**NOTE**

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

## • Contents


**Checking Procedure for each P.C.B.** Page.

1. Checking for the tuner P.C.B., dolby prologic P.C.B. and power supply P.C.B.. ..... 13.
2. Checking for the operation P.C.B.. ..... 14.
3. Checking for the main P.C.B.. ..... 14,15.

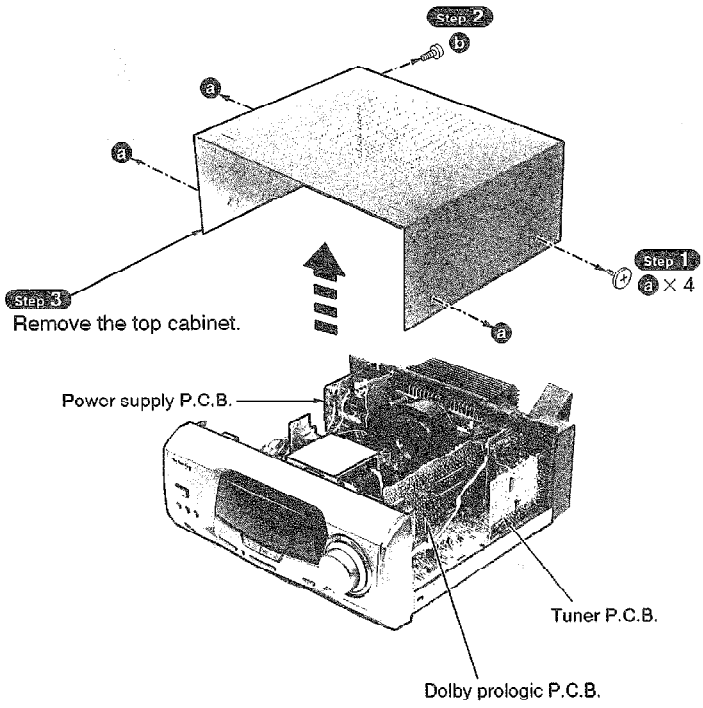
**Main Component Replacement Procedures**

1. Replacement for the power IC and regulator transistor. ..... 16.


## Checking Procedure for each P.C.B.

### 1. Checking for the tuner P.C.B., dolby prologic P.C.B. and power supply P.C.B.

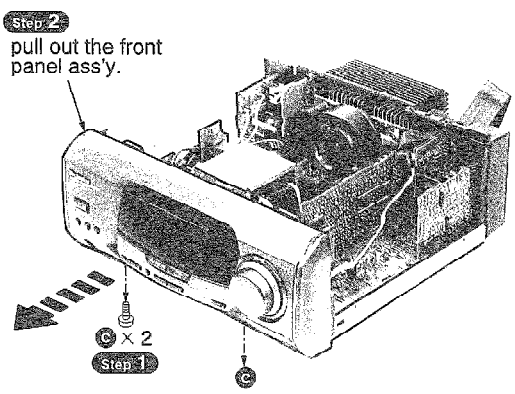
• Check the tuner P.C.B., dolby prologic P.C.B. and power supply P.C.B. as shown below.

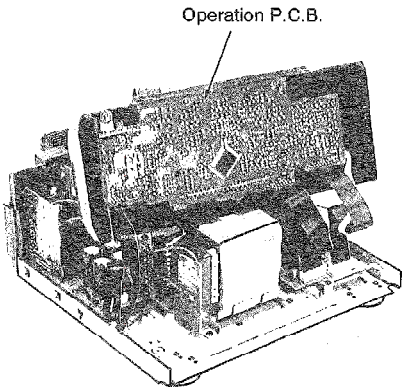


## 2. Checking for the operation P.C.B.

• Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 13.

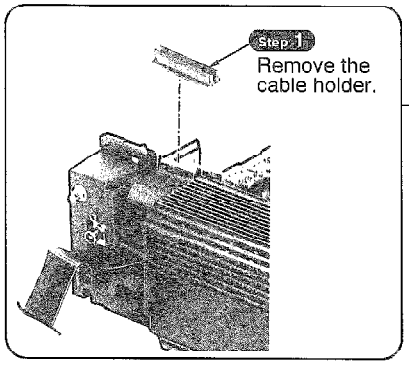
• **Check the operation P.C.B. as shown below.**

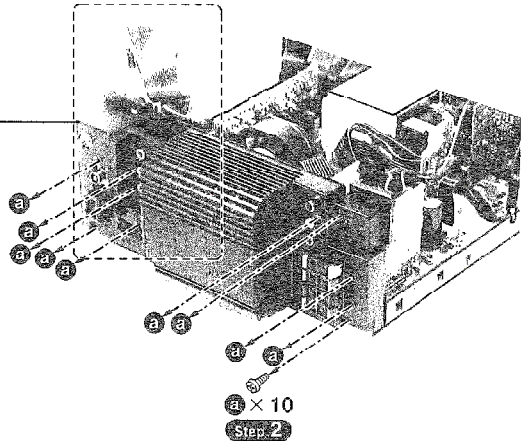


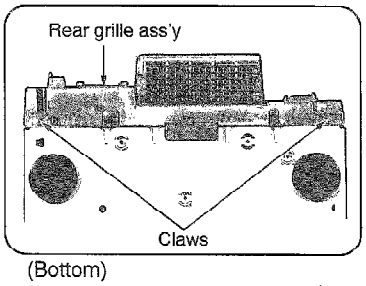




## 3. Checking for the main P.C.B.

• Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 13.

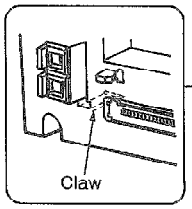


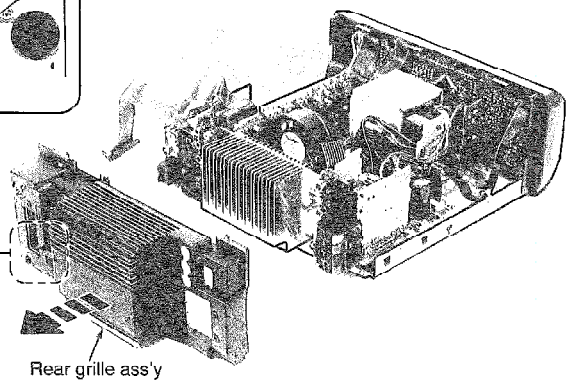




(Bottom)

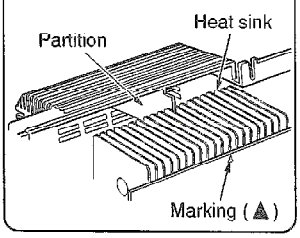
Step 3
Release the 3 claws, and then remove the rear grille ass'y.

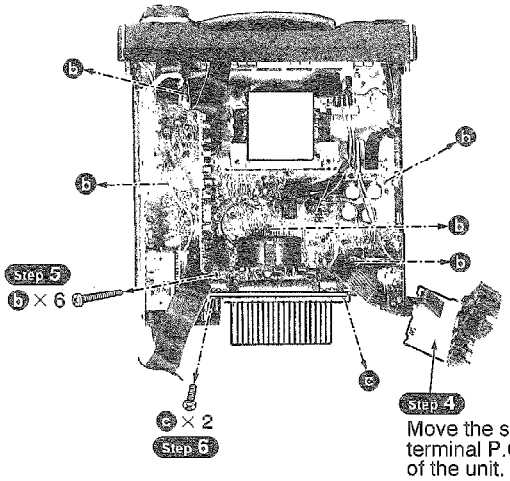



**Notice for installation of rear grille ass'y**

Align the partition of rear grille ass'y with the marking (▲) on the heat sink.

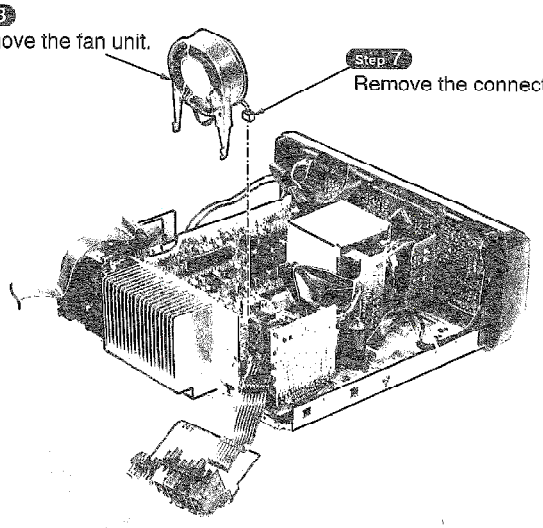


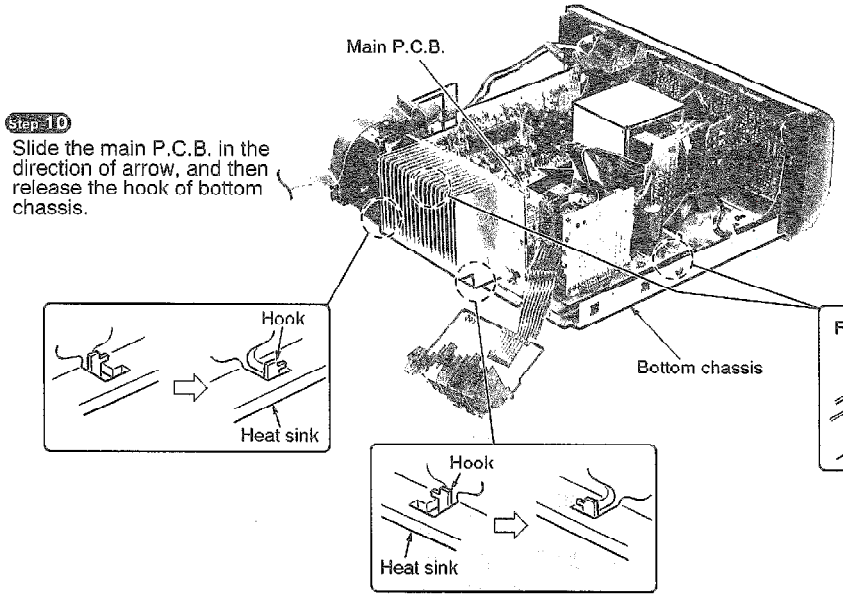



Step 4
Move the speaker terminal P.C.B. out of the unit.

Step 8
Remove the fan unit.

Step 7
Remove the connector.

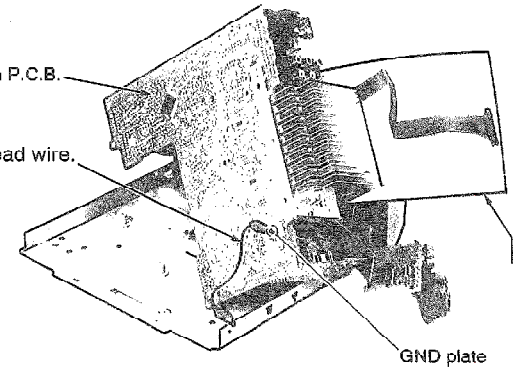





Step 10
Slide the main P.C.B. in the direction of arrow, and then release the hook of bottom chassis.

Step 9
Lift up the main P.C.B., and then release the rib of bottom chassis to remove the main P.C.B..

• **Check the main P.C.B. as shown below.**



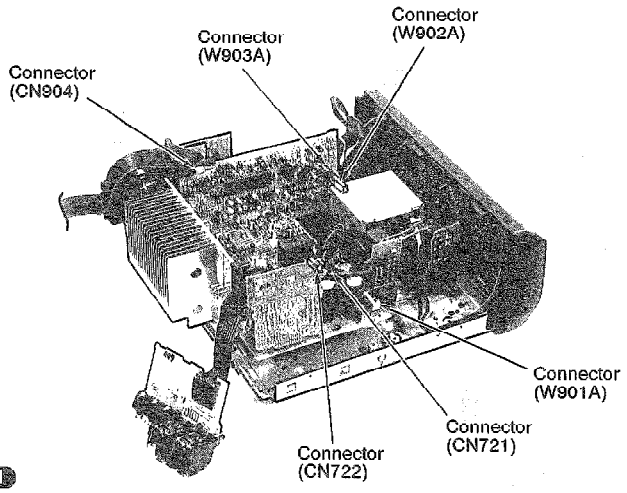

Step 11
Connect the lead wire.

**NOTE**
Insulate main P.C.B. with insulation material to avoid short-circuit.

## Main Component Replacement procedures

### 1. Replacement for the power IC and regulator transistor

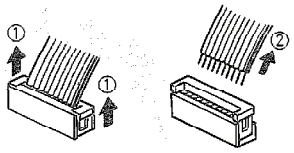
- Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 13.
- Follow the Step 1 ~ Step 10 of the item 3 in checking procedure for each P.C.B. on pages 14 and 15.



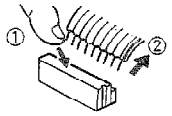

Step 1
Remove the flat cables from connectors.

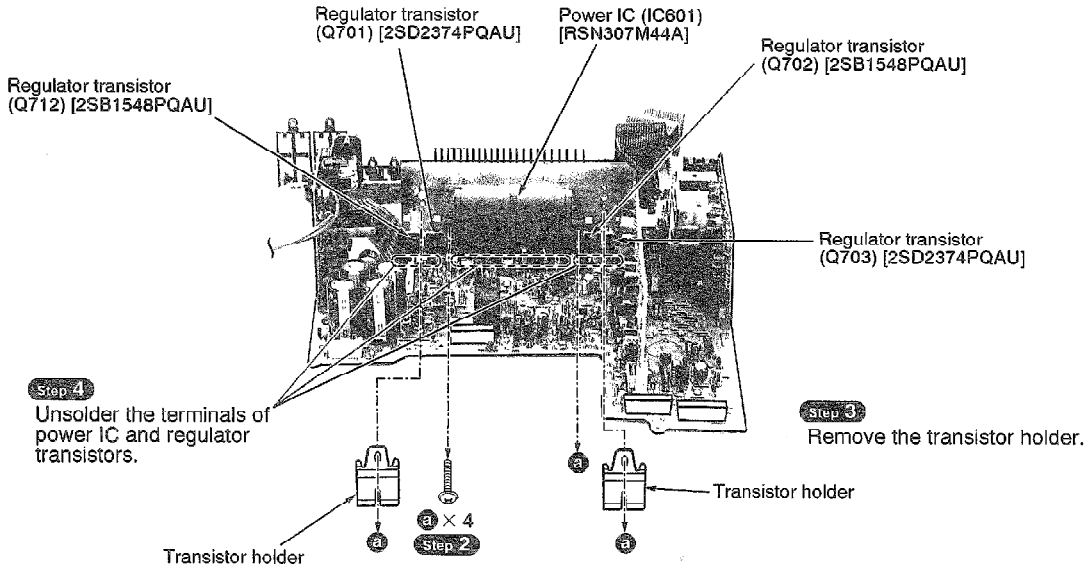
**Removal of the connector**

- Connectors (W901A, W902A, W903A)




- Connectors (CN721, CN722, CN904)




Step 4
Unsolder the terminals of power IC and regulator transistors.

Step 2

Step 3
Remove the transistor holder.

**NOTE**
When mounting the power IC or regulator transistor apply silicone conpound (RFKX0002) to the rear side of power IC or regulator transistors.

## ■ To Supply Power Source

**This unit SA-EH600 is designed to operate on power supplied from the system connected. (For system connection, refer to Fig.1)**

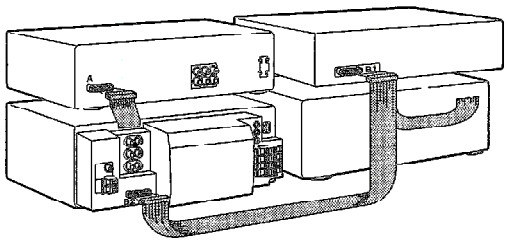


Fig. 1

**When you have to test and service the unit SA-EH600 alone, use the following method to supply power source and operate the unit:**

1. Short the section between **7 pin** and **10 pin** of the connector **W202** in Fig. 2.
2. Connect this unit to an AC Power Cord.
   (This unit come to stand-by mode.)
3. Turn the unit ON.

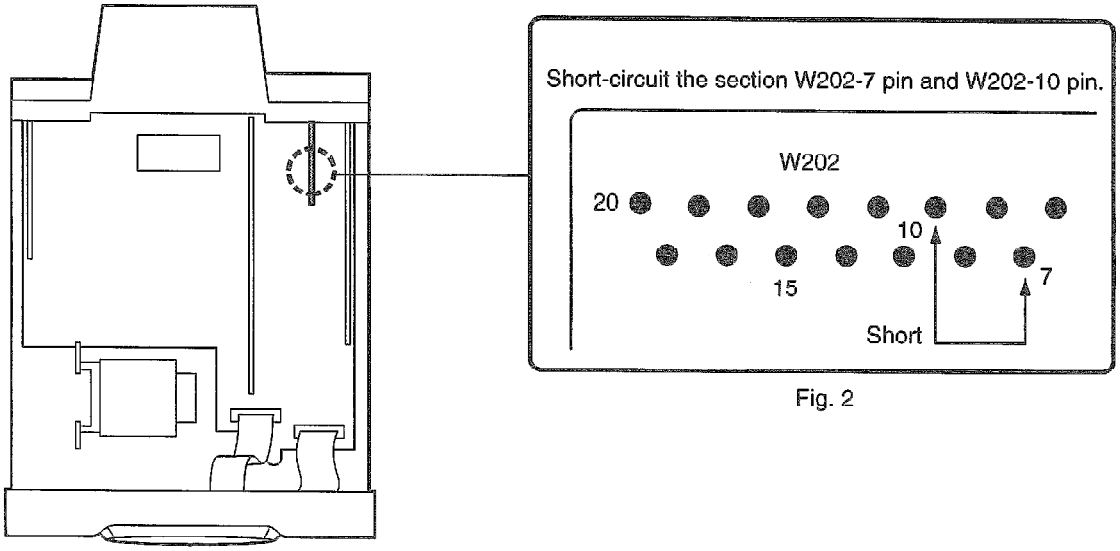



Fig. 2

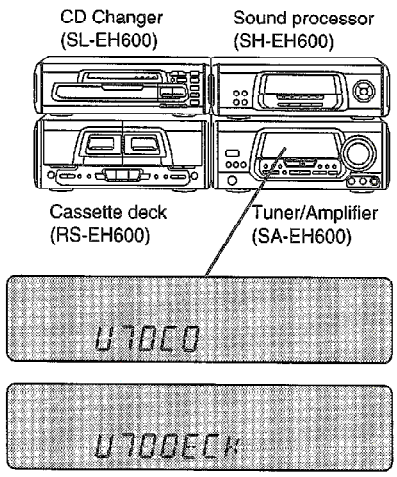
## ■ To Check Operation

1. Set this unit to Power-ON mode.
2. Input a signal and confirm it to be outputted from the speaker terminal.

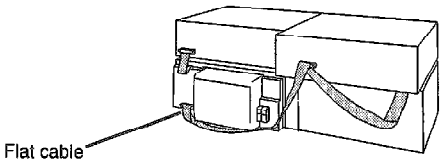
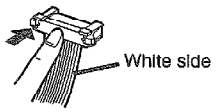
| | INPUT | OUTPUT |
|---|---|---|
| L-ch | EXT IN | L-ch speaker terminal |
| R-ch | EXT IN | L-ch speaker terminal |
| Surround | EXT IN | Surround speaker terminal |
| Center | EXT IN | Center speaker terminal |

# About the Self-Diagnostic Mode

This unit is equipped with a self-diagnostic function which, in the event of a malfunction, automatically displays a code indicating the nature of the malfunction. Use this self-diagnostic function when servicing the unit.

| Display method | Display location |
|---|---|
| **To display the malfunction code**<br>U-70 CD:<br>U-70 DECK: ..... Automatically displays on the tuner/sound processor when a malfunction occurs.<br>F-61 ..... Automatically displays on the tuner/sound processor when a malfunction occurs.<br>**To return to the normal display**<br>**1. For U-70 CD/U-70 DECK:**<br>• Press an any operation button on the tuner/amplifier.<br>• To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again.<br>**2. For F-61:**<br>• If "F-61" is displayed, the power will automatically be switched off and the standby indicator will light up.<br>• "F-61" will be displayed for 3 seconds, and then the clock will be displayed.<br>• To re-display the code, switch the power on. "F-61" will be re-displayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off. |  |

**Display contents**

| Display code | Problem or condition | Correction procedure |
|---|---|---|
| **U-70 CD**<br>**U-70 DECK**<br>(displayed automatically) | A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating.<br><br>1.If "U-70" is displayed on the tuner/amplifier, the tape deck or CD Changer cannot be operated by remote control. |  <br>1. To check for correct insertion of the flat cables.<br>①Insert each connector until you hear a click.<br>②Insert the flat cables at the back of the unit in the order indicated. Make sure the white side of the cable is on your right side.<br>  <br>2. Breakage of flat cable. (Check and replace as necessary.)<br>3. If the problem is not corrected by items (1.) and (2.) above, this indicates a faulty IC.<br>**SA-EH600:**<br>IC901 (M38199MF105K)<br>**SL-EH600:**<br>IC401 (LC66538A4K17)<br>**RS-EH600:**<br>IC701 (M37471M4679F)<br>Check these IC's and replace as necessary. |
| **F-61** | When the power switch is switched on, it automatically switches back off, making it impossible to switch power on. | • Faulty Tuner/Amplifier (SA-EH600) output IC (IC601).<br>(When a DC voltage is applied to the speaker terminals.) |

# ■ Schematic Diagram


| | Page |
|---|---|
| A TUNER CIRCUIT | 20, 21 |
| B OPERATION CIRCUIT | 22 – 24 |
| C DOLBY PRO LOGIC CIRCUIT | 25 – 27 |
| D IN/OUT TERMINAL CIRCUIT | 28 |
| E MAIN CIRCUIT | 28 – 33 |
| F POWER SUPPLY CIRCUIT | 33, 34 |
| G SPEAKER TERMINAL CIRCUIT | 34 |
| H POWER TRANSFORMER (A) CIRCUIT | 34 |
| I POWER TRANSFORMER (B) CIRCUIT | 34 |


- **This schematic diagram may be modified at any time with the development of new technology.**

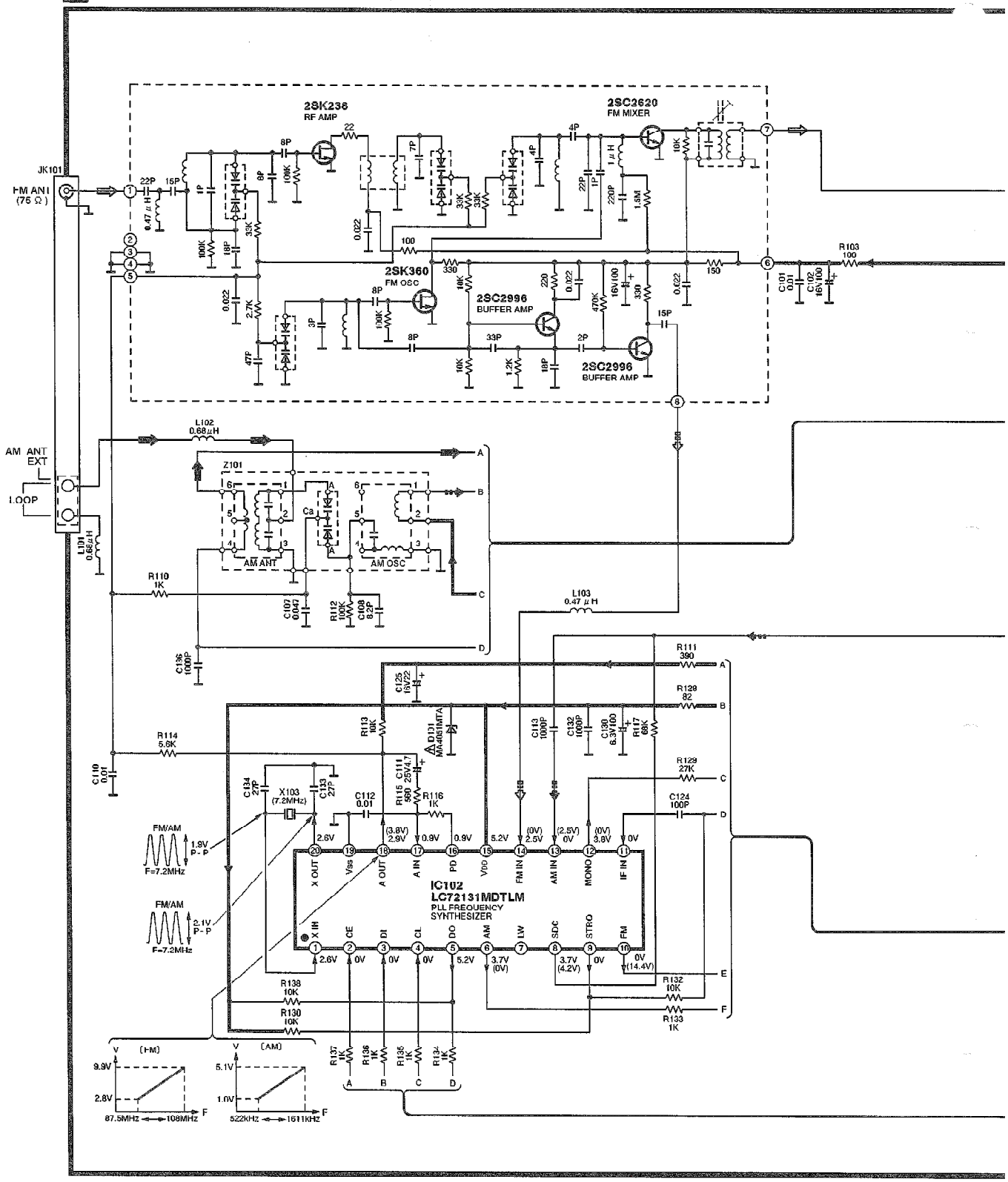
**Notes:**

- **S901** : Power "STANDBY ⏻ /ON" switch (POWER STANDBY ⏻ /ON)
- **S902** : Clock/timer switch (CLOCK/TIMER)
- **S903** : Record timer switch (⏲REC)
- **S904** : Play timer switch (⏲PLAY)
- **S905** : Tuning mode select switch (TUNING MODE)
- **S906** : Set switch (SET)
- **S907** : FM mode select switch (FM AUTO/MONO)
- **S908** : Source input select switch (INPUT SELECTOR)
- **S909** : Tuning down switch (TUNING ∨ )
- **S910** : Tuning up switch (TUNING ∧ )
- **S911** : Tuner/band select switch (TUNER/BAND)
- **S912** : Super woofer switch (S.WOOFER)
- **S913** : RDS display mode select switch (PS–DISP MODE) ┐ For (EG) and (EP) areas
- **S914** : RDS display mode select switch (DISP MODE–PTY) ┘ For (EG) and (EP) areas
- **VR901** : Volume control (VOLUME)

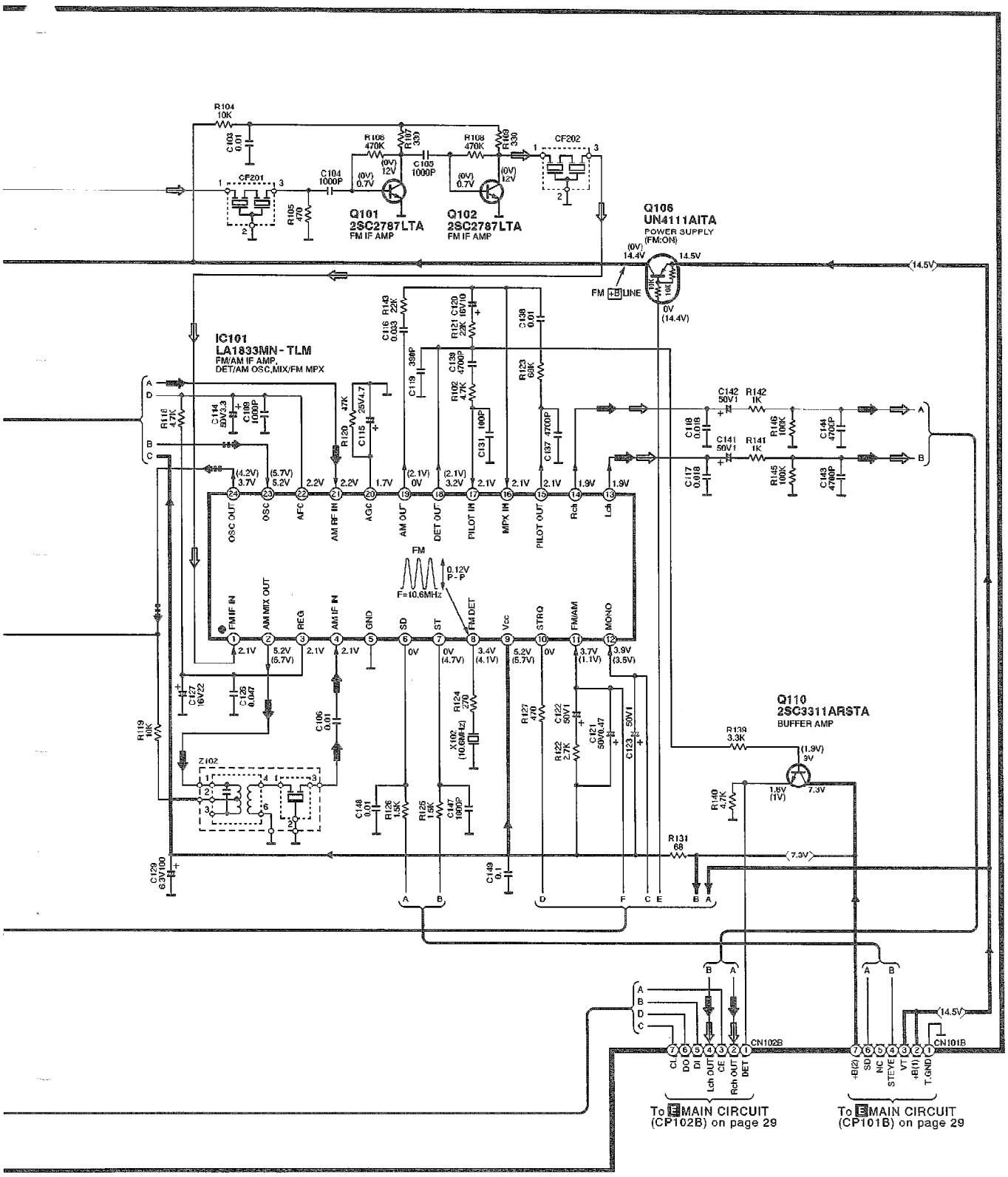
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  No mark: FM ( ) : AM
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.
- **Voltage and signal line**

| | | | |
|---|---|---|---|
| ——→ | : Positive voltage line | ▪▪▶▪▪ | : Negative voltage line |
| ▬▬▶ | : AM signal Line | ▨▨▶ | : Surround Speaker Drive signal line |
| ▪▪▪▶ | : AM OSC signal line | ▬▬▶ | : Center Speaker Drive signal line |
| ═══▷ | : FM signal line | | |
| □□□▷ | : FM OSC signal line | | |

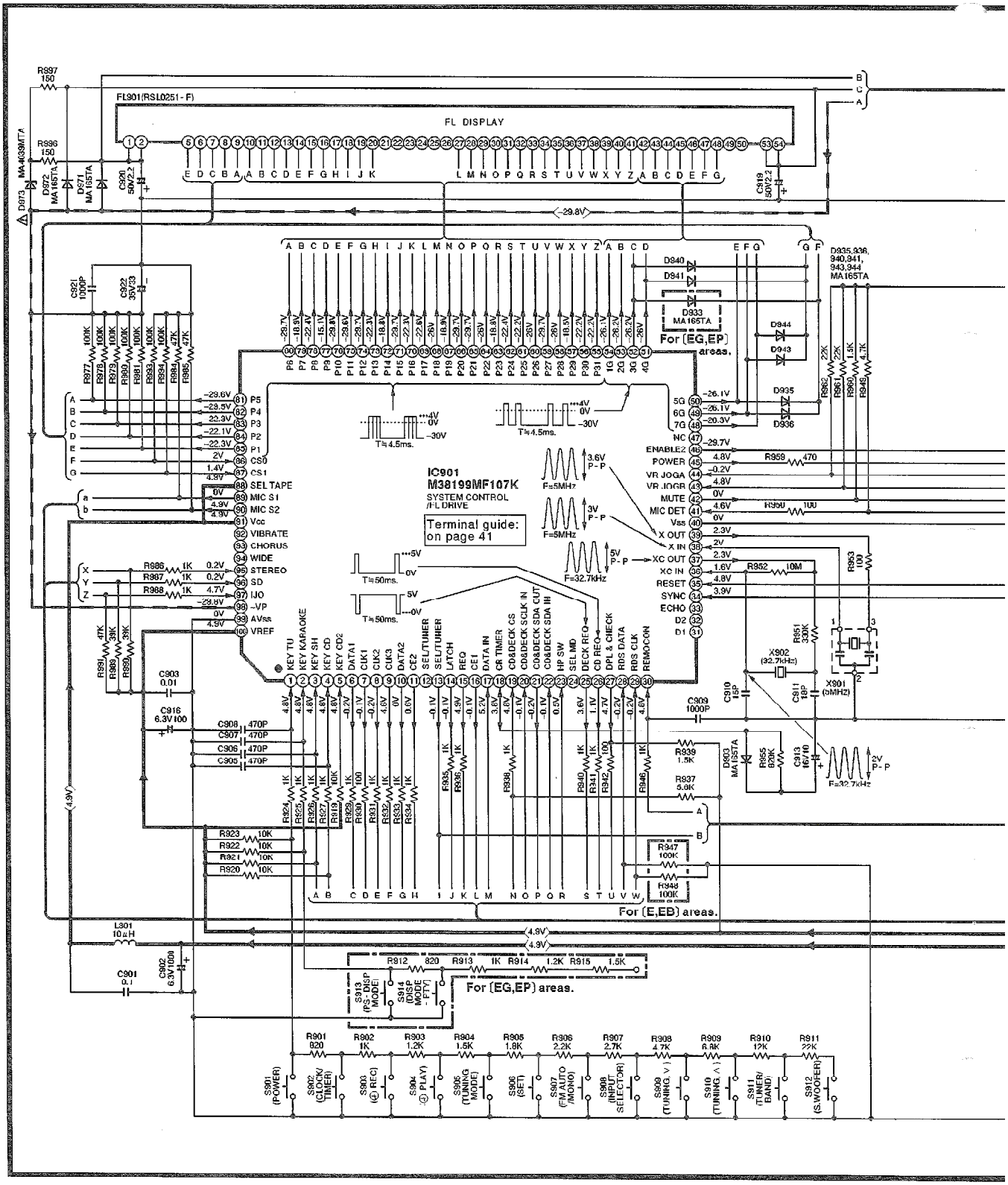
## A TUNER CIRCUIT (P.C.Board:on page 35)



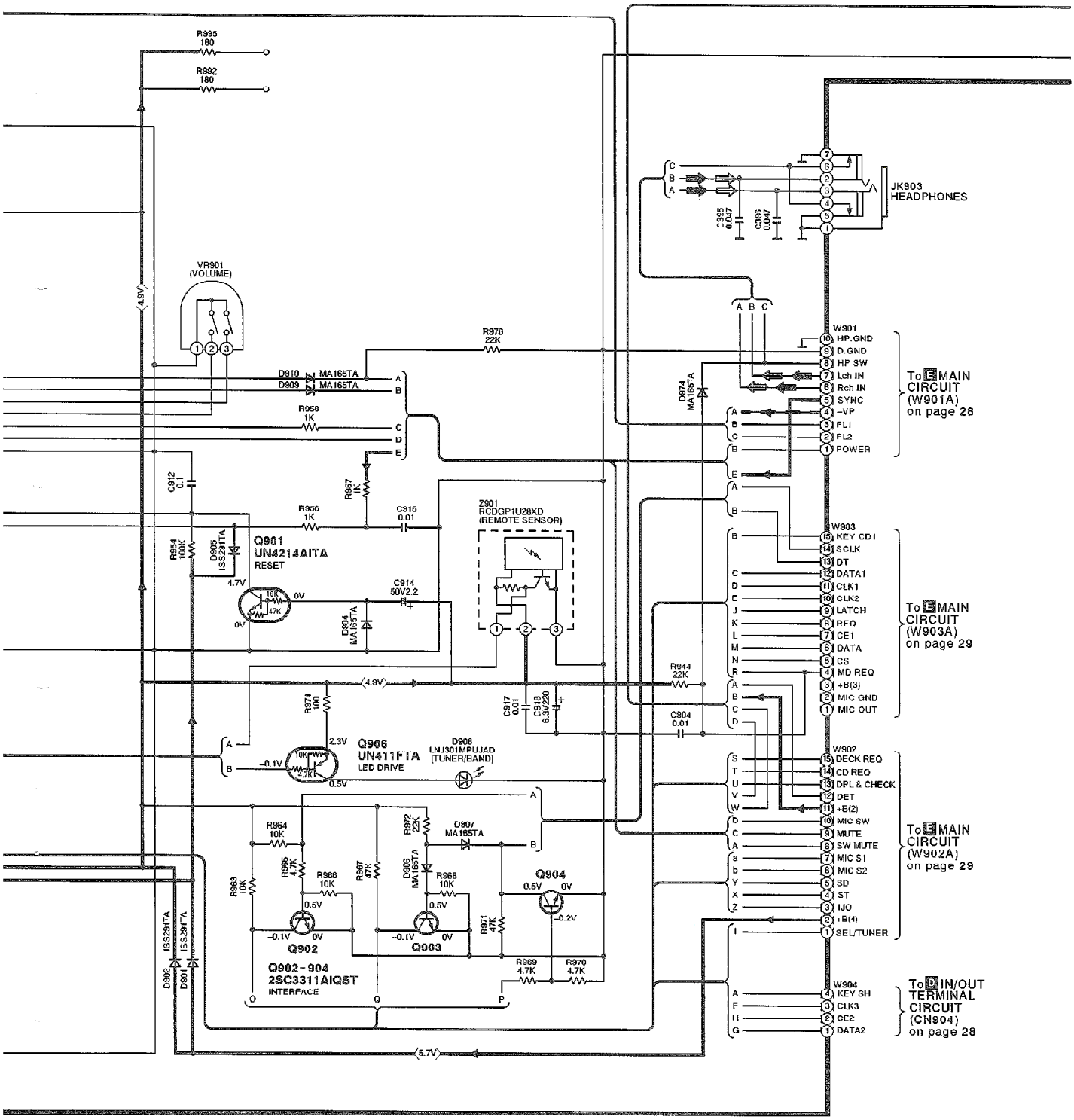
: AM signal Line
: AM OSC signal line
: FM signal line
: FM OSC signal line
: Positive voltage line



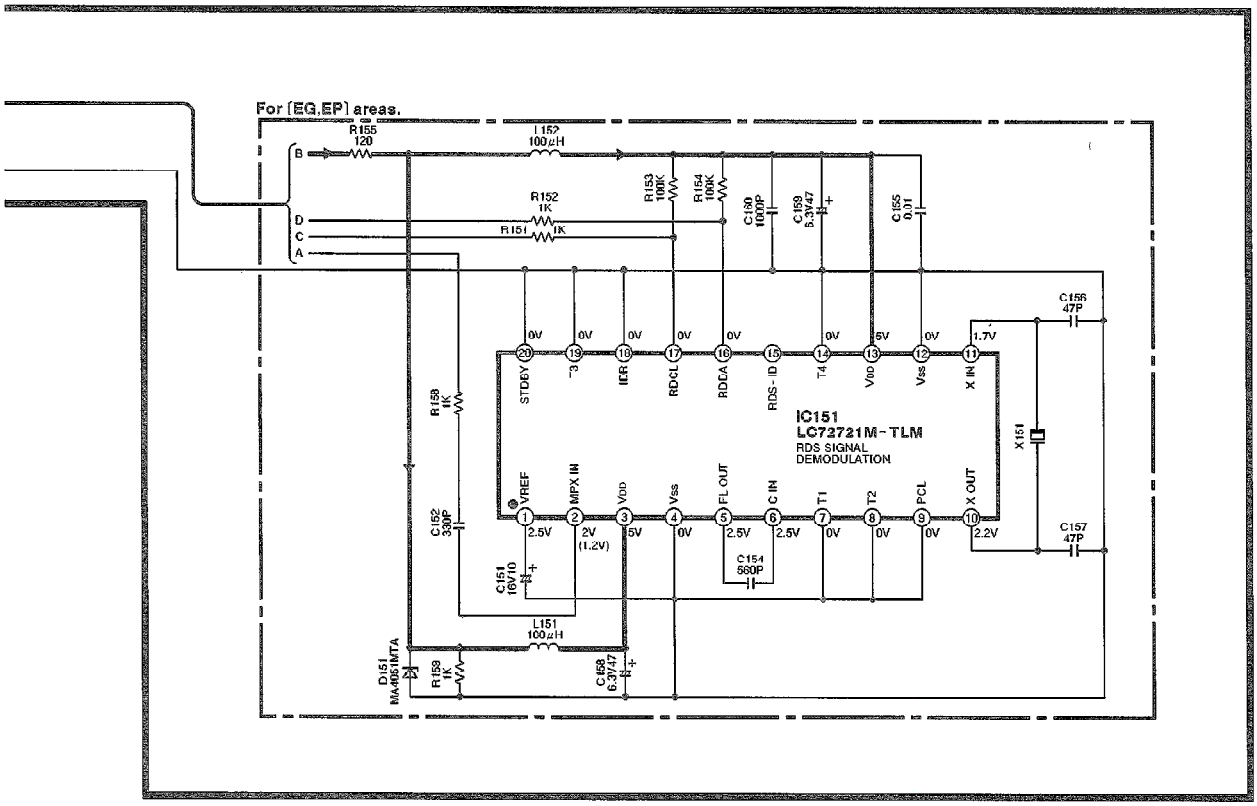
## B OPERATION CIRCUIT (P.C.Board:on page 35)



: Positive voltage line
: Negative voltage line
: AM signal Line
: FM signal line

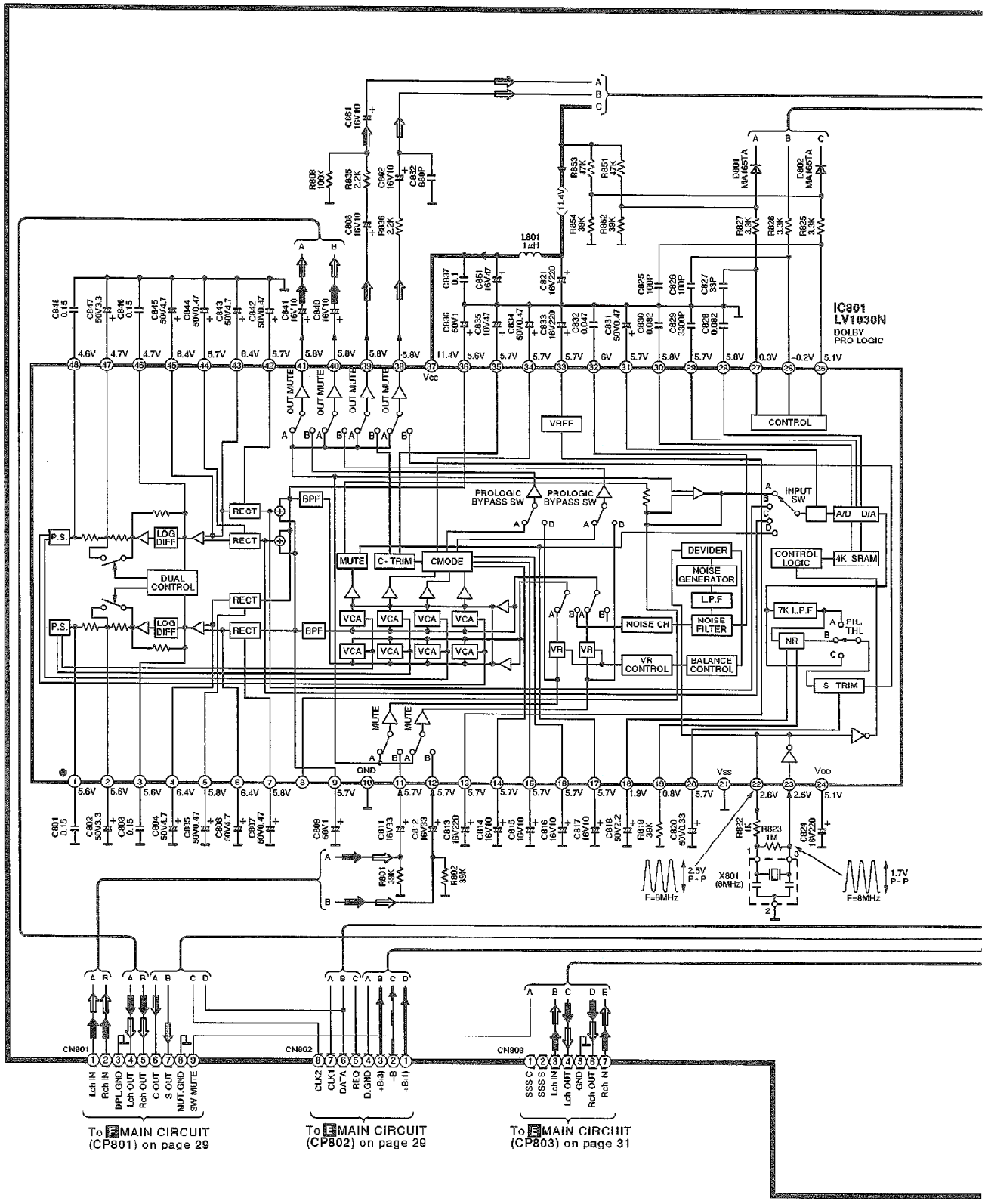


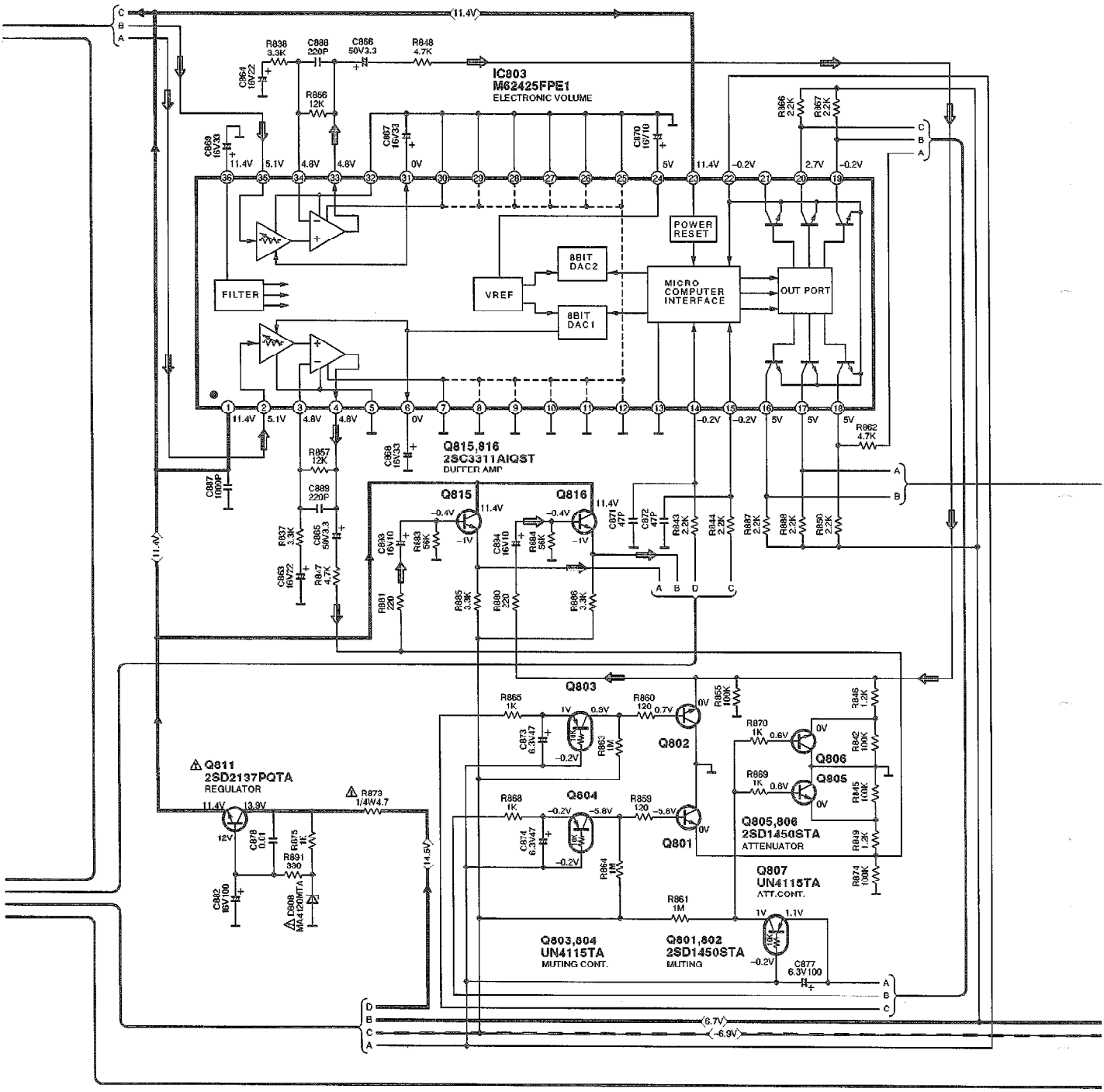
## B OPERATION CIRCUIT (P.C.Board:on page 35)




: Positive voltage line
: AM signal Line
: AM OSC signal line
: FM signal line
: FM OSC signal line
: Negative voltage line
: Surround Speaker Drive signal line
: Center Speaker Drive signal line

## C DOLBY PROLOGIC CIRCUIT (P.C.Board:on page 37)

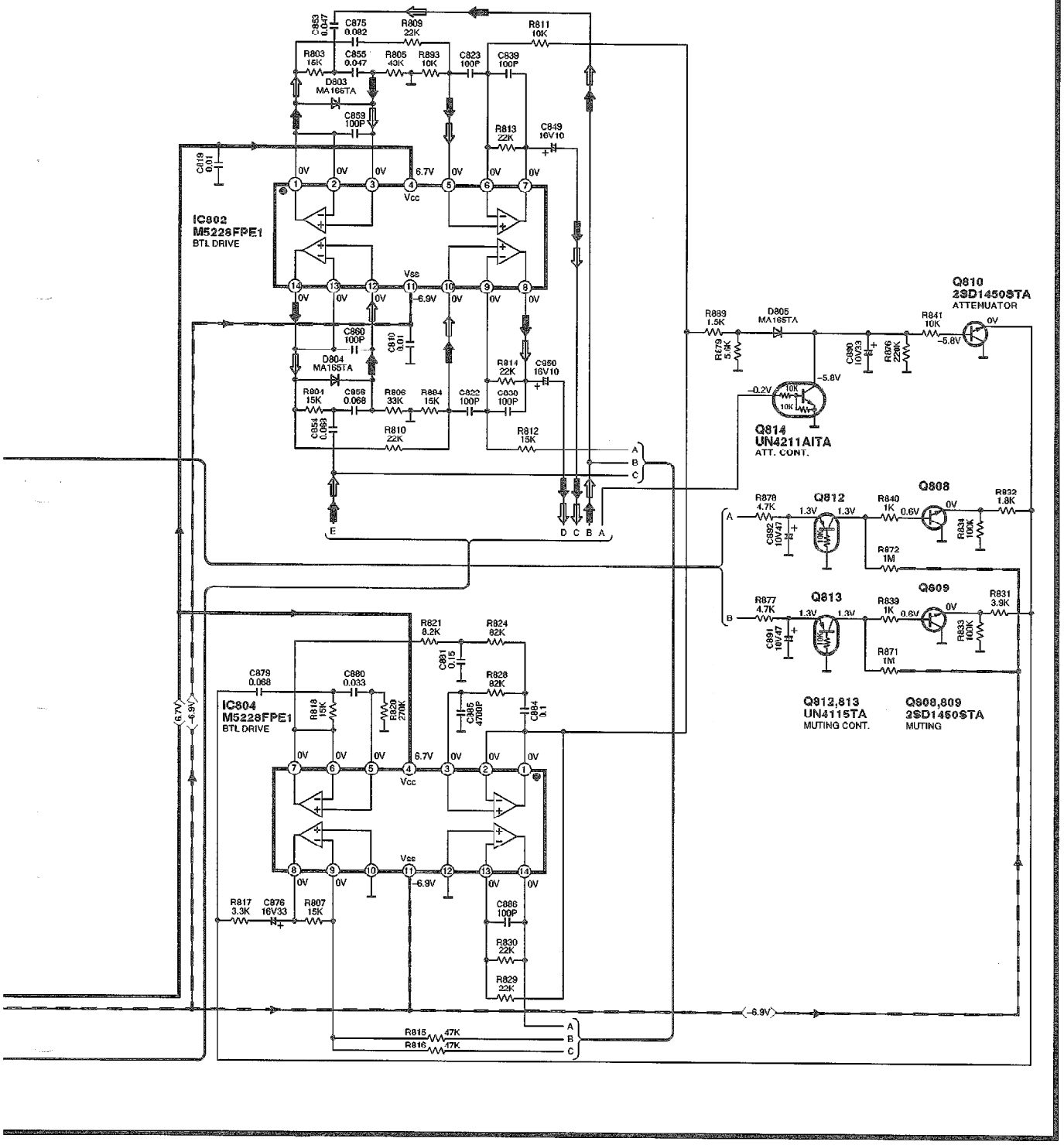


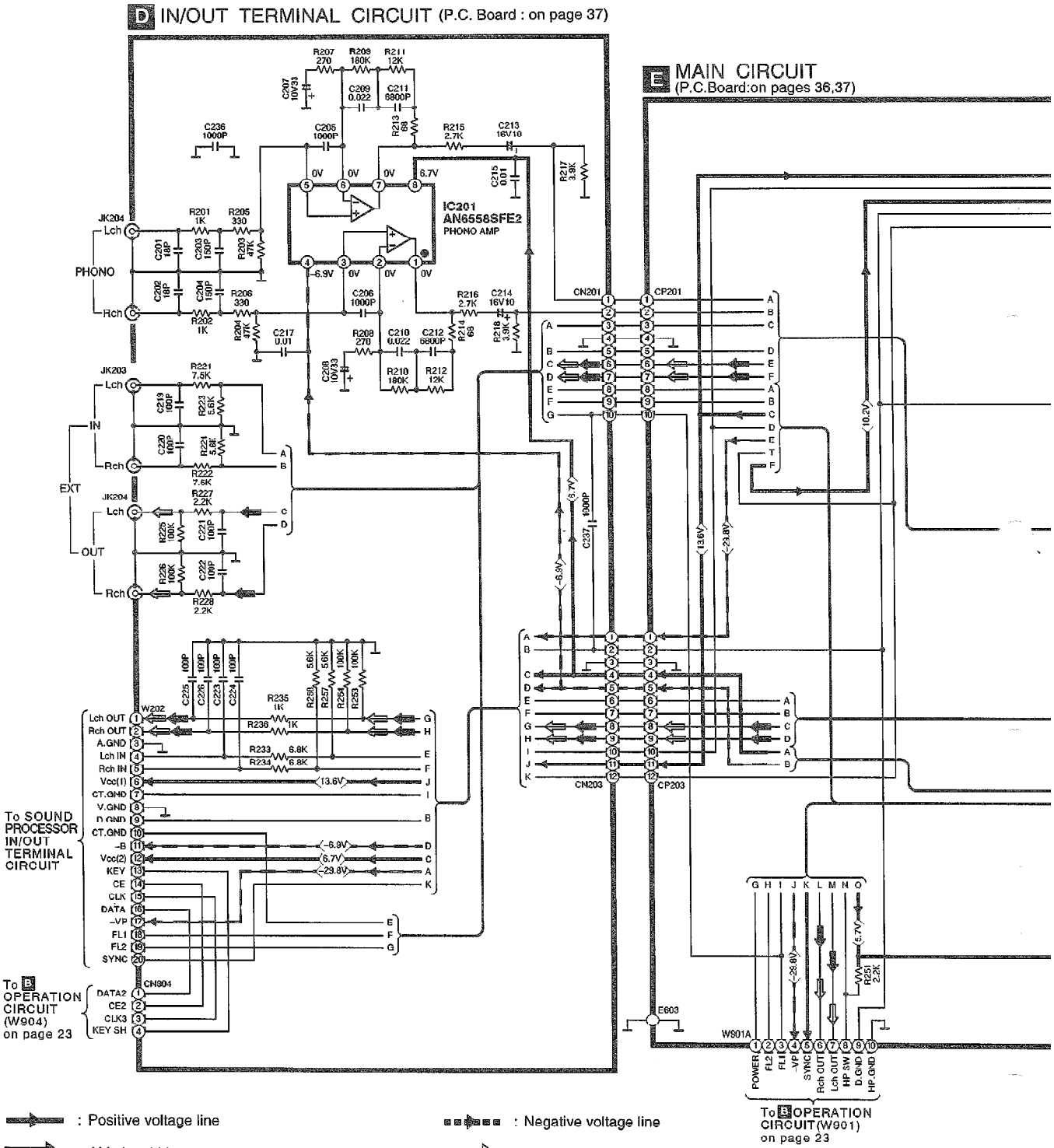

IC803
M62425FPE1
ELECTRONIC VOLUME
FILTER
VREF
8BIT DAC2
8BIT DAC1
MICRO COMPUTER INTERFACE
OUT PORT
POWER RESET
Q815,816
2SC3311AIQST
BUFFER AMP
Q815
Q816
Q803
Q802
Q806
Q805
Q804
Q801
Q805,806
2SD1450STA
ATTENUATOR
Q807
UN4115TA
ATT.CONT.
Q803,804
UN4115TA
MUTING CONT.
Q801,802
2SD1450STA
MUTING
Q811
2SD2137PQTA
REGULATOR
11.4V
6.7V
-6.9V
14.5V

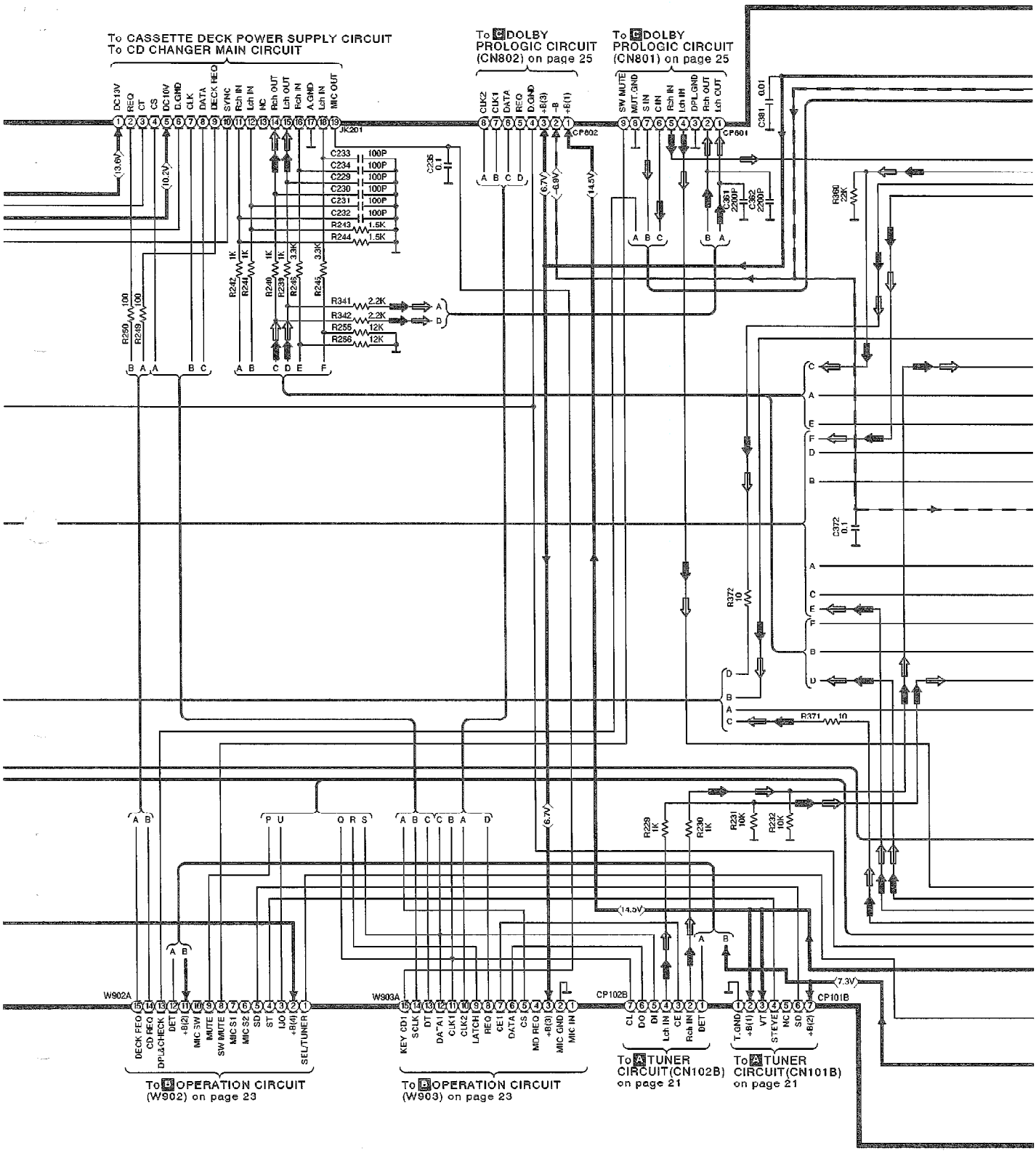
: AM signal Line　: FM signal line　: Surround Speaker Drive signal line

: Center Speaker Drive signal line　: Positive voltage line　: Negative voltage line

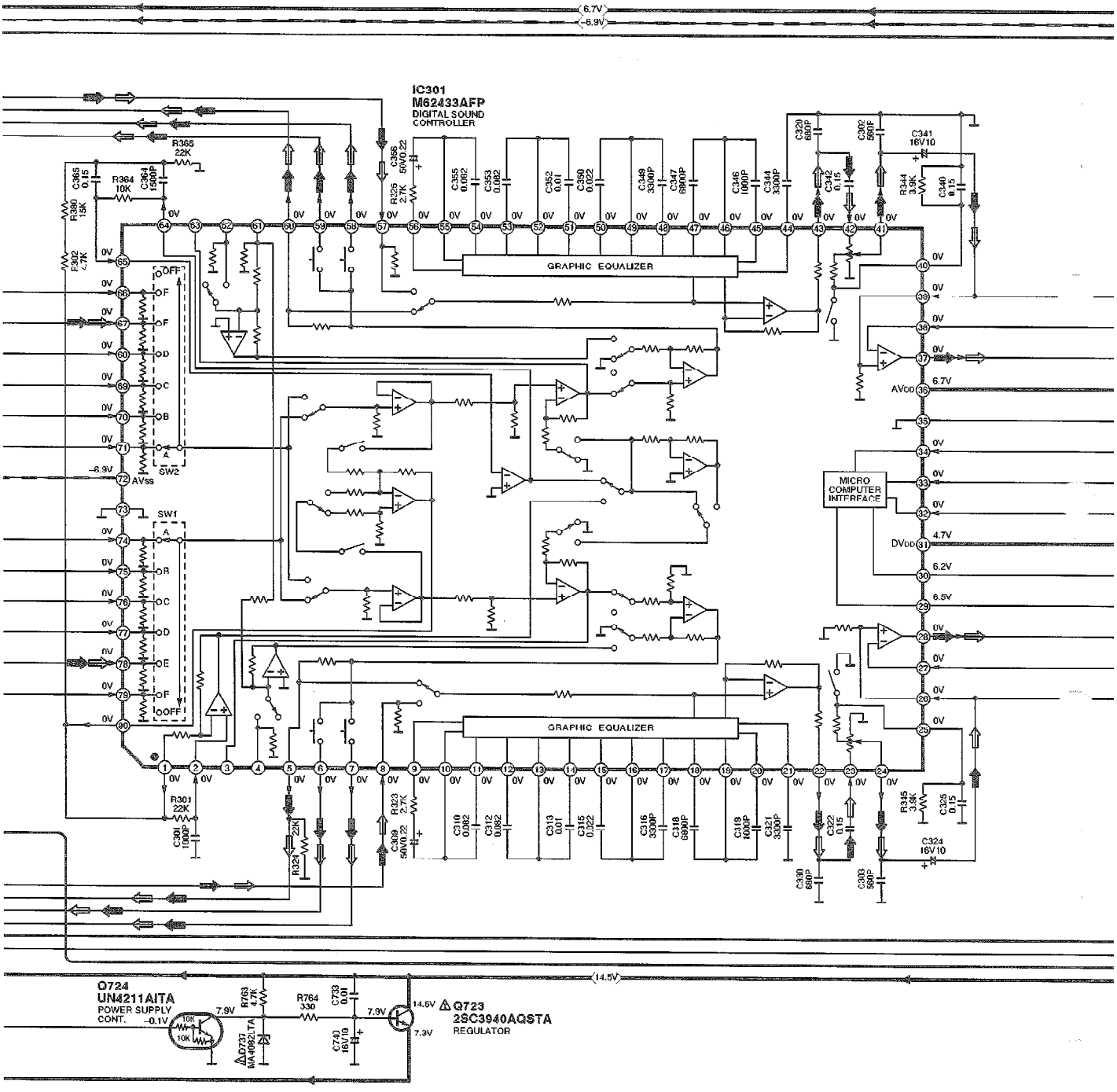
## C DOLBY PROLOGIC CIRCUIT (P.C.Board on page 37)



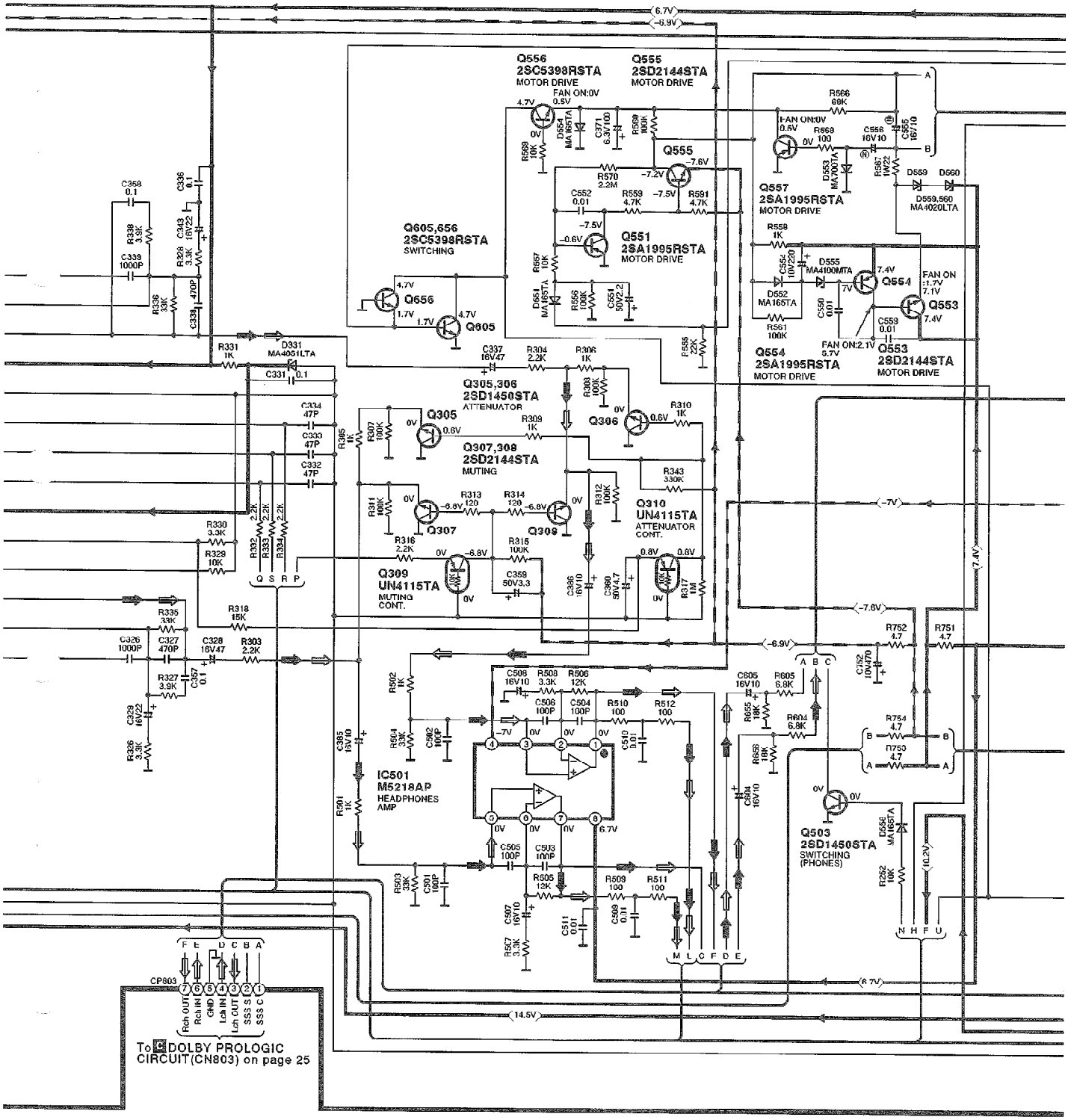

D IN/OUT TERMINAL CIRCUIT (P.C. Board : on page 37)
E MAIN CIRCUIT
(P.C.Board:on pages 36,37)
IC201
AN6558SFE2
PHONO AMP
JK204
JK203
PHONO
IN
EXT
OUT
Lch
Rch
CN201
CP201
CN203
CP203
W202
CN904
W901A
E603
To SOUND PROCESSOR IN/OUT TERMINAL CIRCUIT
To B OPERATION CIRCUIT (W904) on page 23
To B OPERATION CIRCUIT(W901) on page 23
Lch OUT
Rch OUT
A.GND
Lch IN
Rch IN
Vcc(1)
CT.GND
V.GND
D GND
CT.GND
-B
Vcc(2)
KEY
CE
CLK
DATA
-VP
FL1
FL2
SYNC
DATA2
CE2
CLK3
KEY SH
POWER
FL2
FL1
-VP
SYNC
Rch OUT
Lch OUT
HP SW
D.GND
HP.GND
: Positive voltage line
: Negative voltage line
: AM signal Linc
: FM signal line
: Surround Speaker Drive signal line
: Center Speaker Drive signal line


To CASSETTE DECK POWER SUPPLY CIRCUIT
To CD CHANGER MAIN CIRCUIT
To G DOLBY PROLOGIC CIRCUIT (CN802) on page 25
To G DOLBY PROLOGIC CIRCUIT (CN801) on page 25
JK201
CP802
CP801
W902A
W903A
CP102B
CP101B
To B OPERATION CIRCUIT (W902) on page 23
To B OPERATION CIRCUIT (W903) on page 23
To A TUNER CIRCUIT(CN102B) on page 21
To A TUNER CIRCUIT(CN101B) on page 21

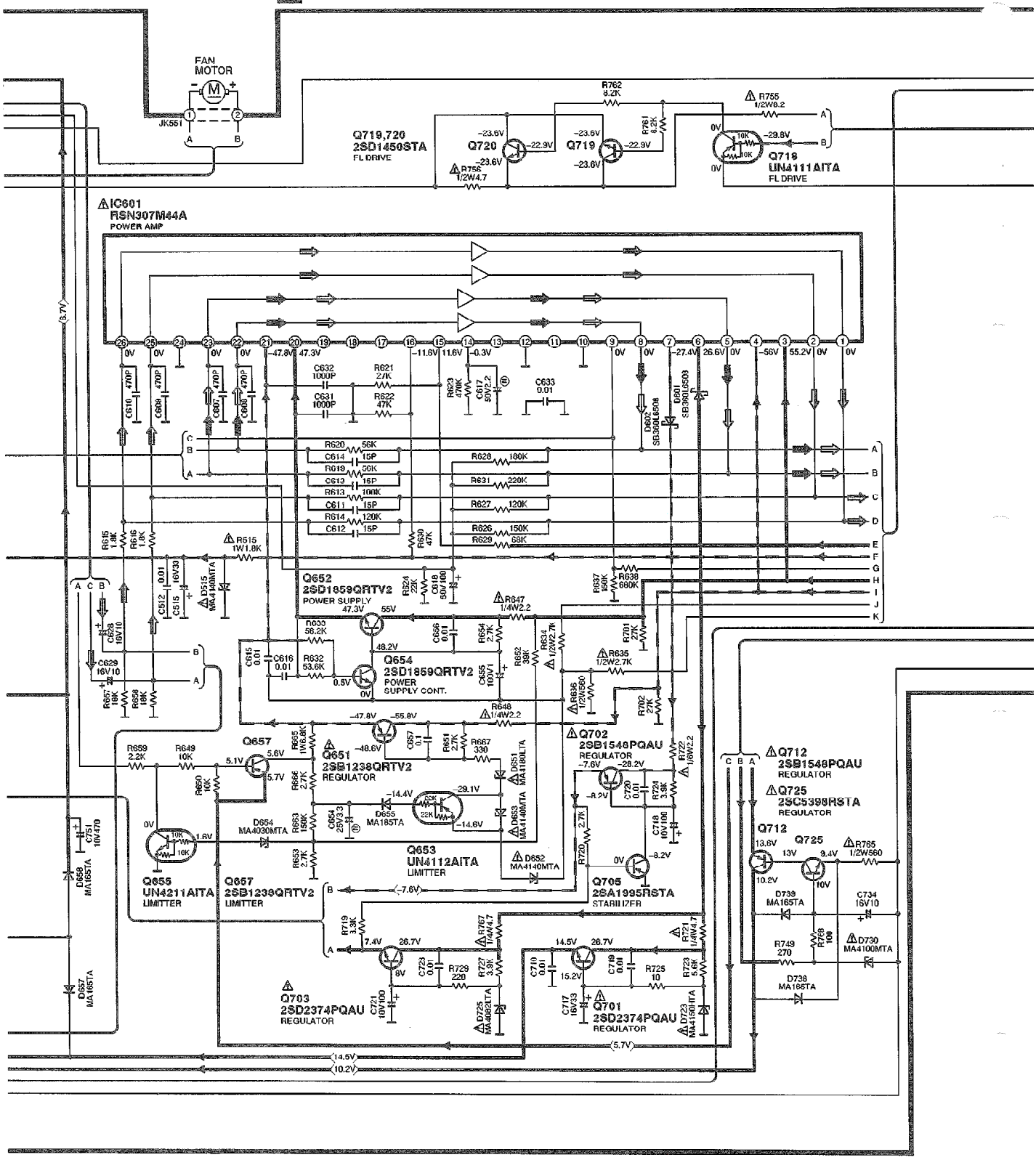
## E MAIN CIRCUIT (P.C.Board:on pages 36,37)



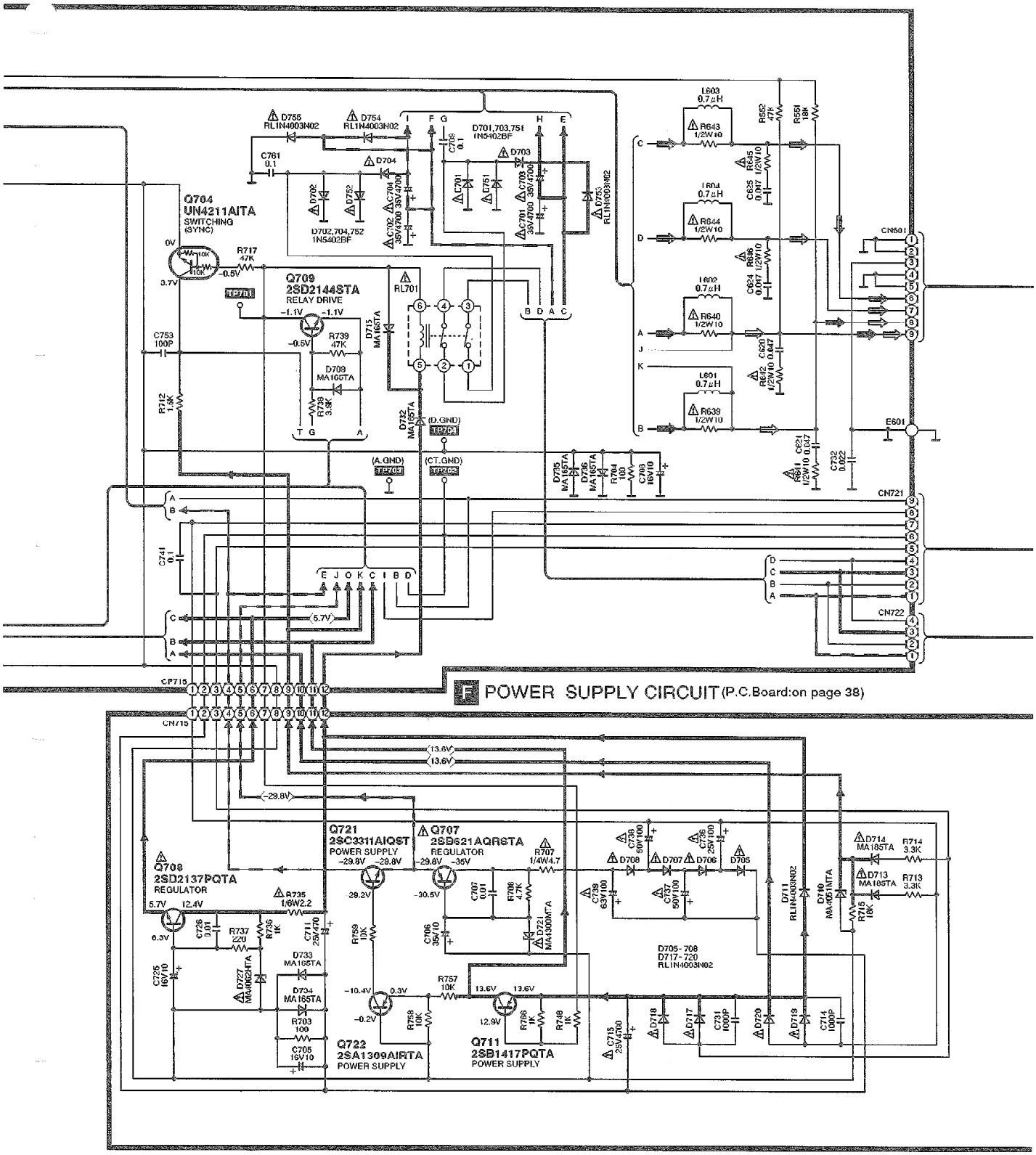
: Positive voltage line
: AM signal Line
: Surround Speaker Drive signal line
: Negative voltage line
: FM signal line
: Center Speaker Drive signal line



## E MAIN CIRCUIT (P.C.Board:on pages 36, 37)

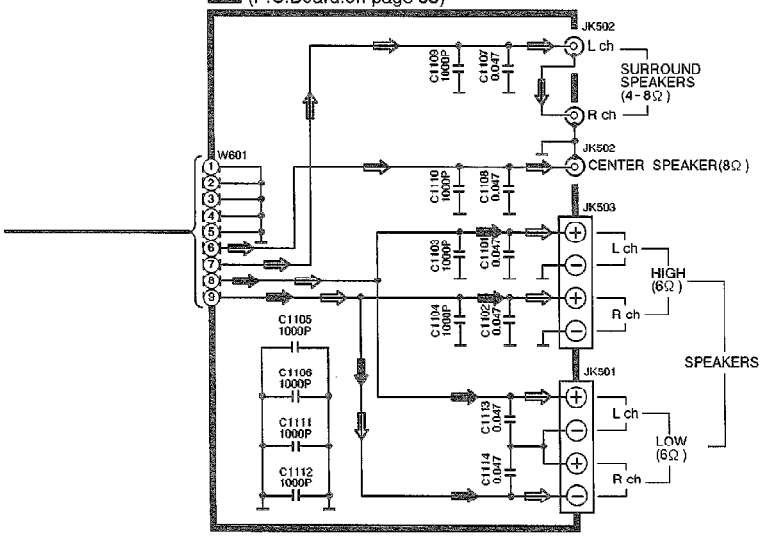


: Positive voltage line
: Negative voltage line
: AM signal Line
: FM signal line
: Surround Speaker Drive signal line
: Center Speaker Drive signal line



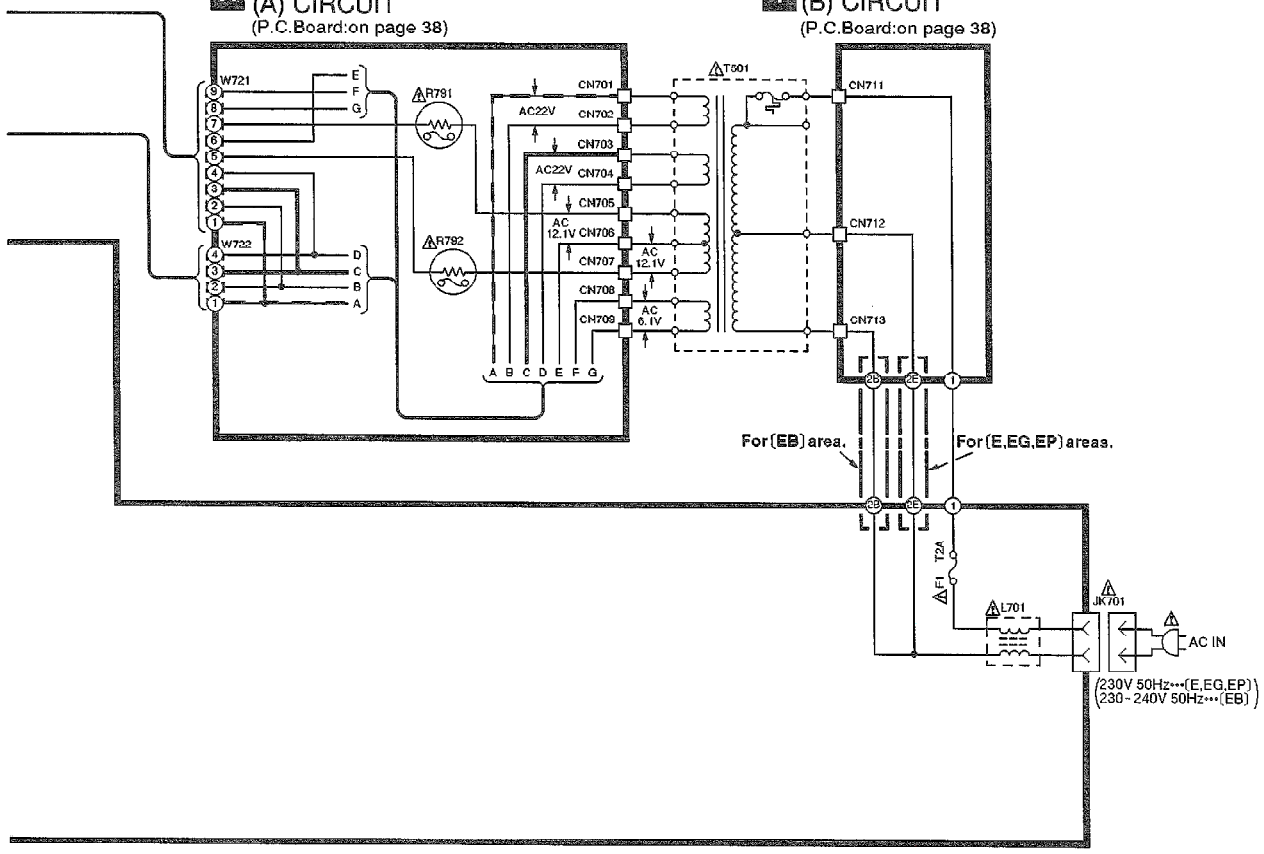
: Positive voltage line
: Negative voltage line
: AM signal Line
: FM signal line
: Surround Speaker Drive signal line
: Center Speaker Drive signal line

## G SPEAKER TERMINAL CIRCUIT
(P.C.Board:on page 38)




## H POWER TRANSFORMER (A) CIRCUIT
(P.C.Board:on page 38)

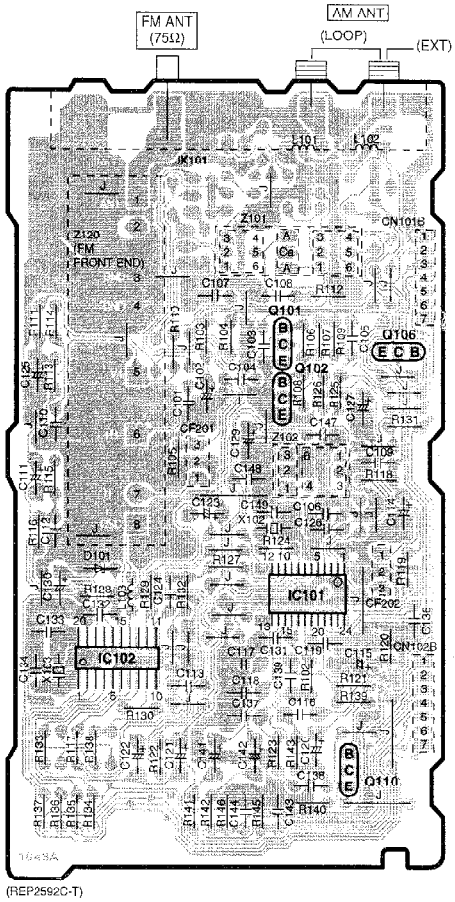
## I POWER TRANSFORMER (B) CIRCUIT
(P.C.Board:on page 38)



# ■ Printed Circuit Board Diagram

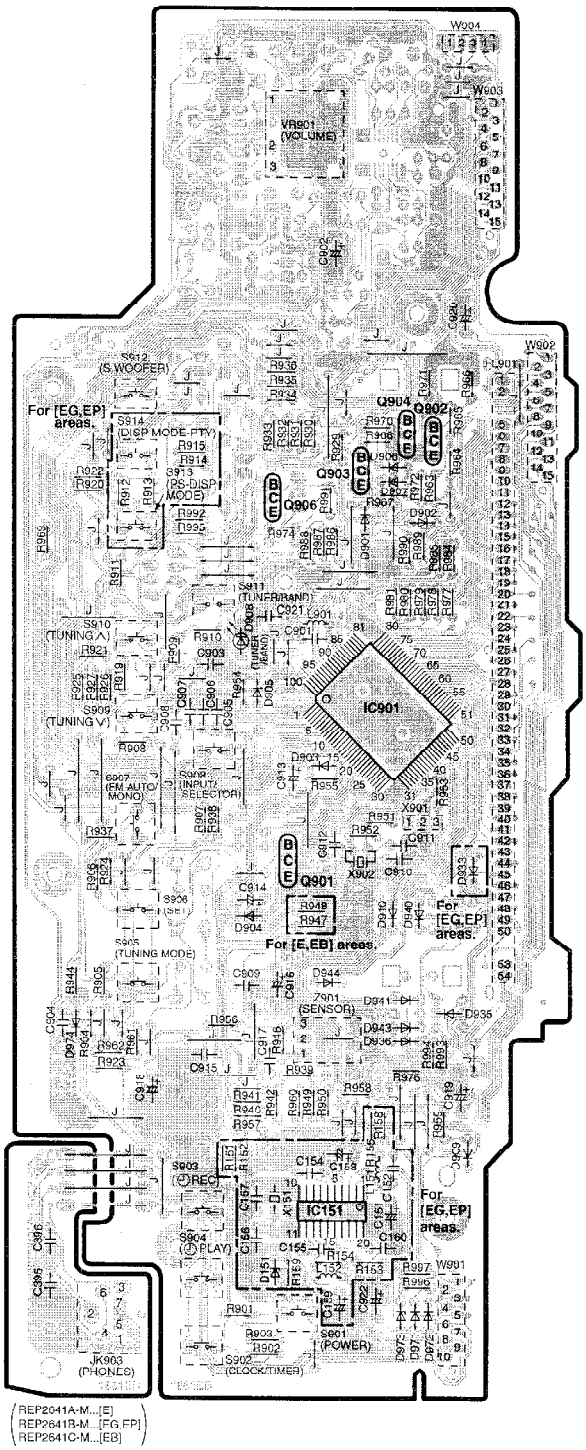
- This circuit board diagram may be modified at any time with the development of new technology.

## A TUNER P.C.B.

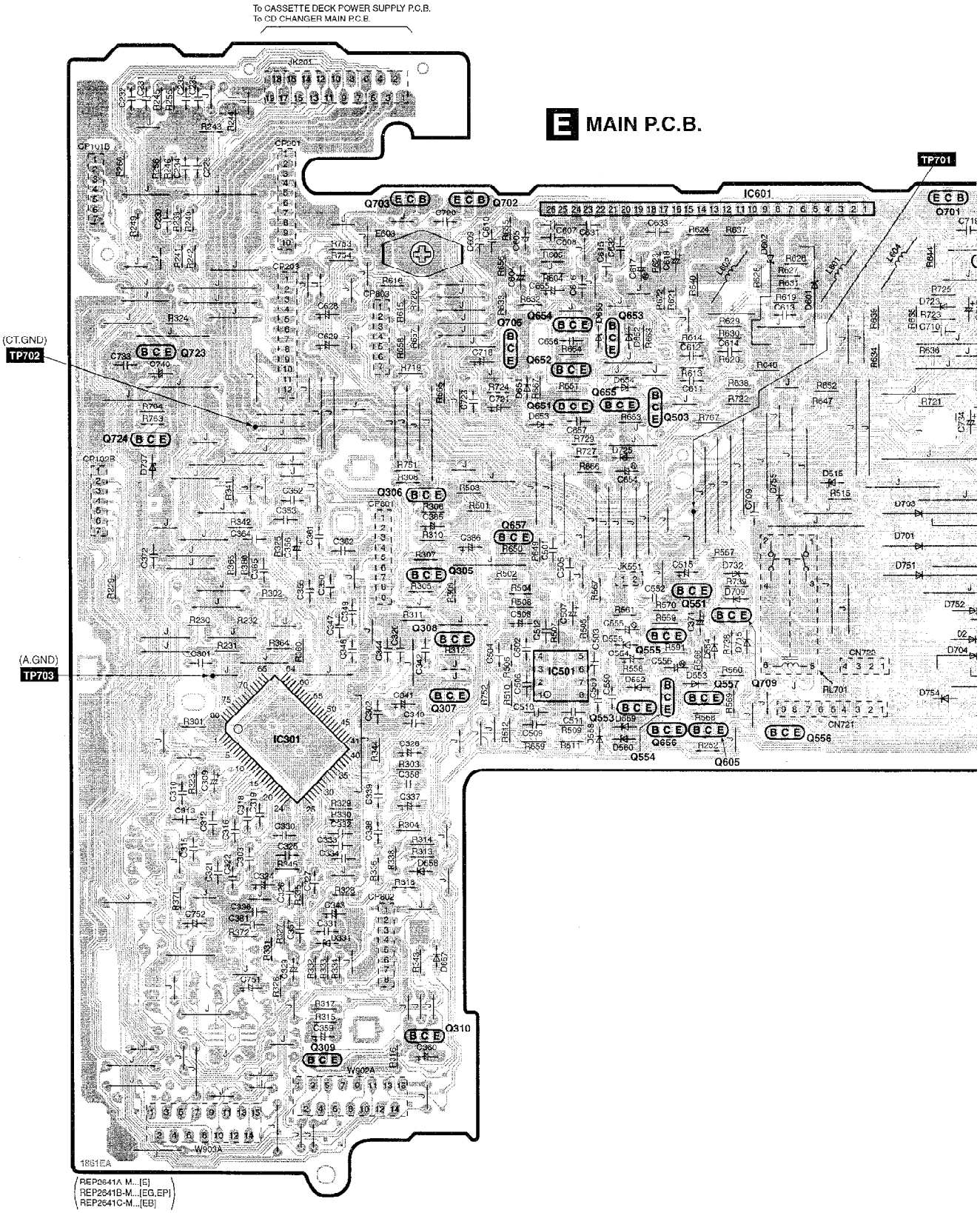



(REP2592C-T)

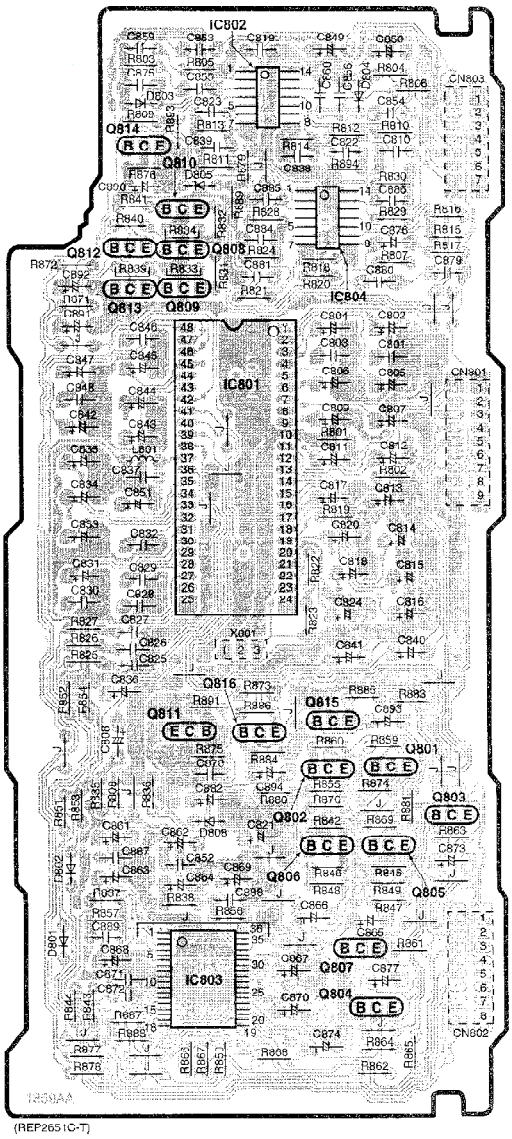
## B OPERATION P.C.B.



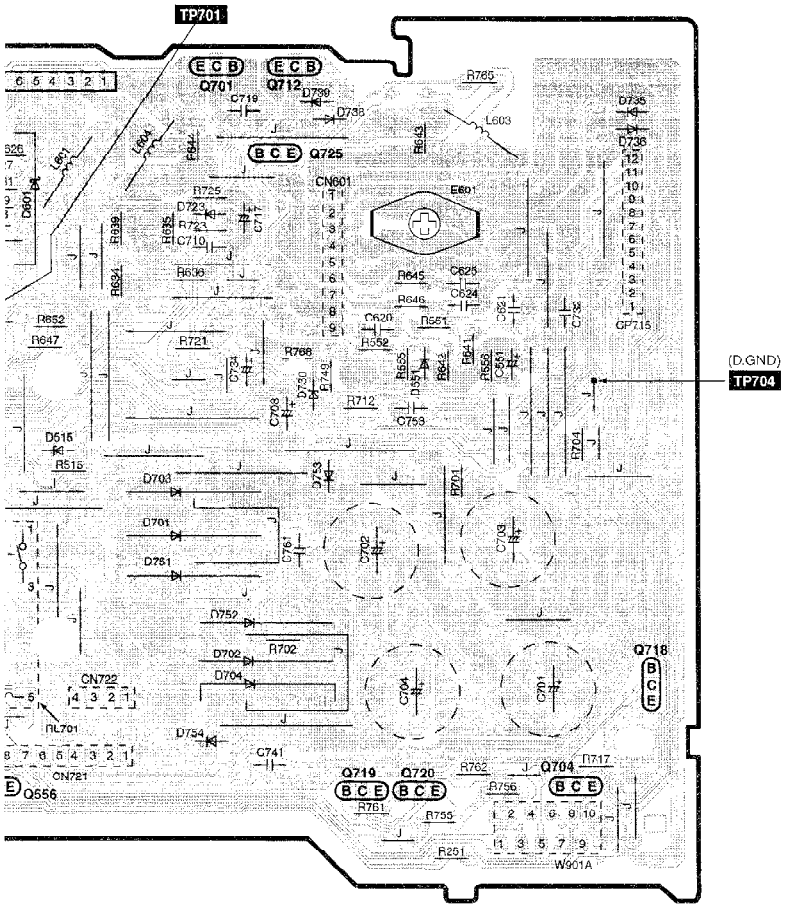

(REP2641A-M...[E]
REP2641B-M...[EG,EP]
REP2641C-M...[EB])


To CASSETTE DECK POWER SUPPLY P.C.B.
To CD CHANGER MAIN P.C.B.
E MAIN P.C.B.
(CT.GND)
TP702
(A.GND)
TP708
TP701
IC601
IC301
IC501
Q703
Q702
Q701
Q706
Q654
Q653
Q652
Q655
Q651
Q503
Q723
Q724
Q306
Q657
Q305
Q551
Q308
Q555
Q307
Q557
Q709
Q553
Q554
Q656
Q605
Q556
Q310
Q309
W902A
W903A
1861EA
REP2641A M...[E]
REP2641B-M...[EG,EP]
REP2641C-M...[EB]

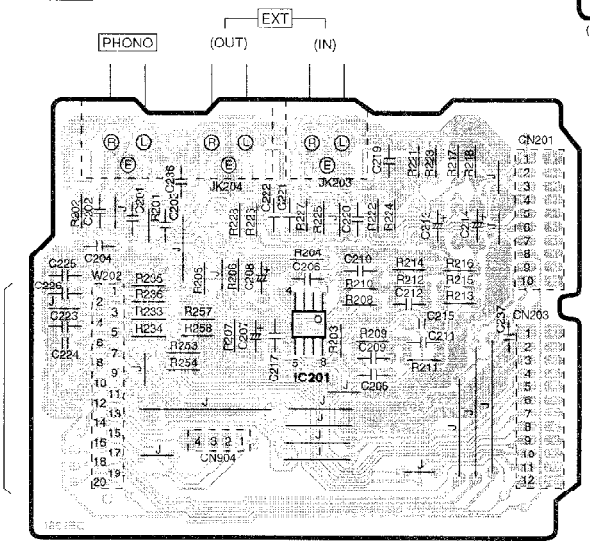
## C DOLBY PROLOGIC P.C.B.




(REP2651C-T)

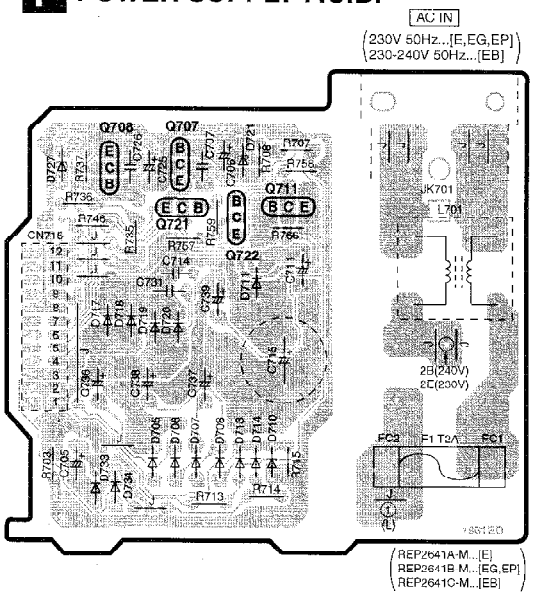



## D IN / OUT TERMINAL P.C.B.

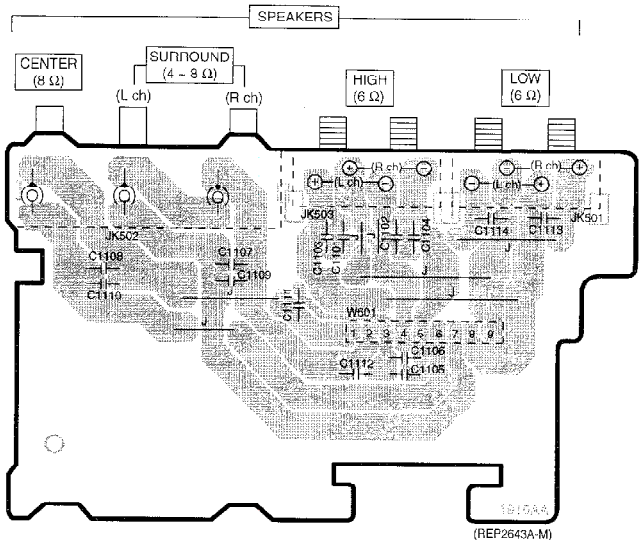



(REP2641A-M...[E]
REP2641B-M...[EG,EP]
REP2641C-M...[EB])

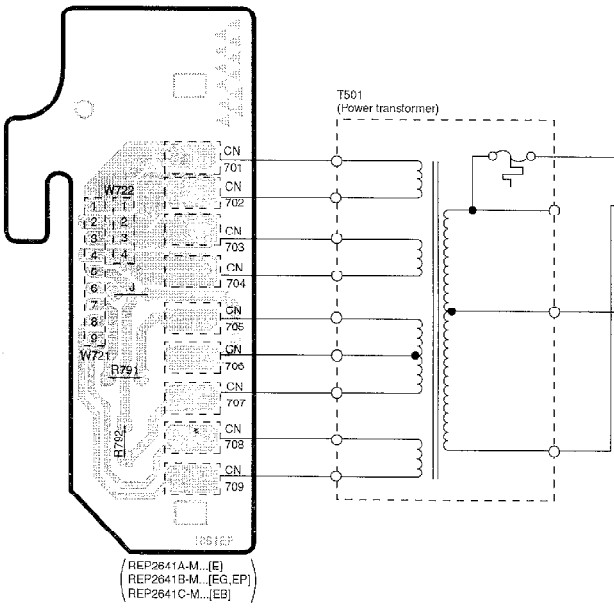
## F POWER SUPPLY P.C.B.



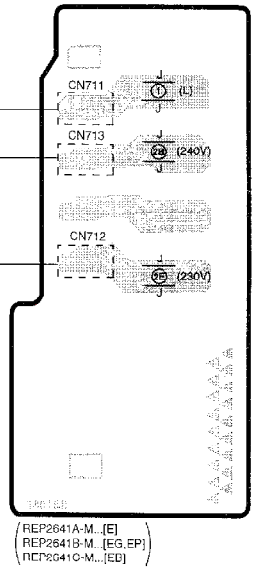

## G SPEAKER TERMINAL P.C.B.



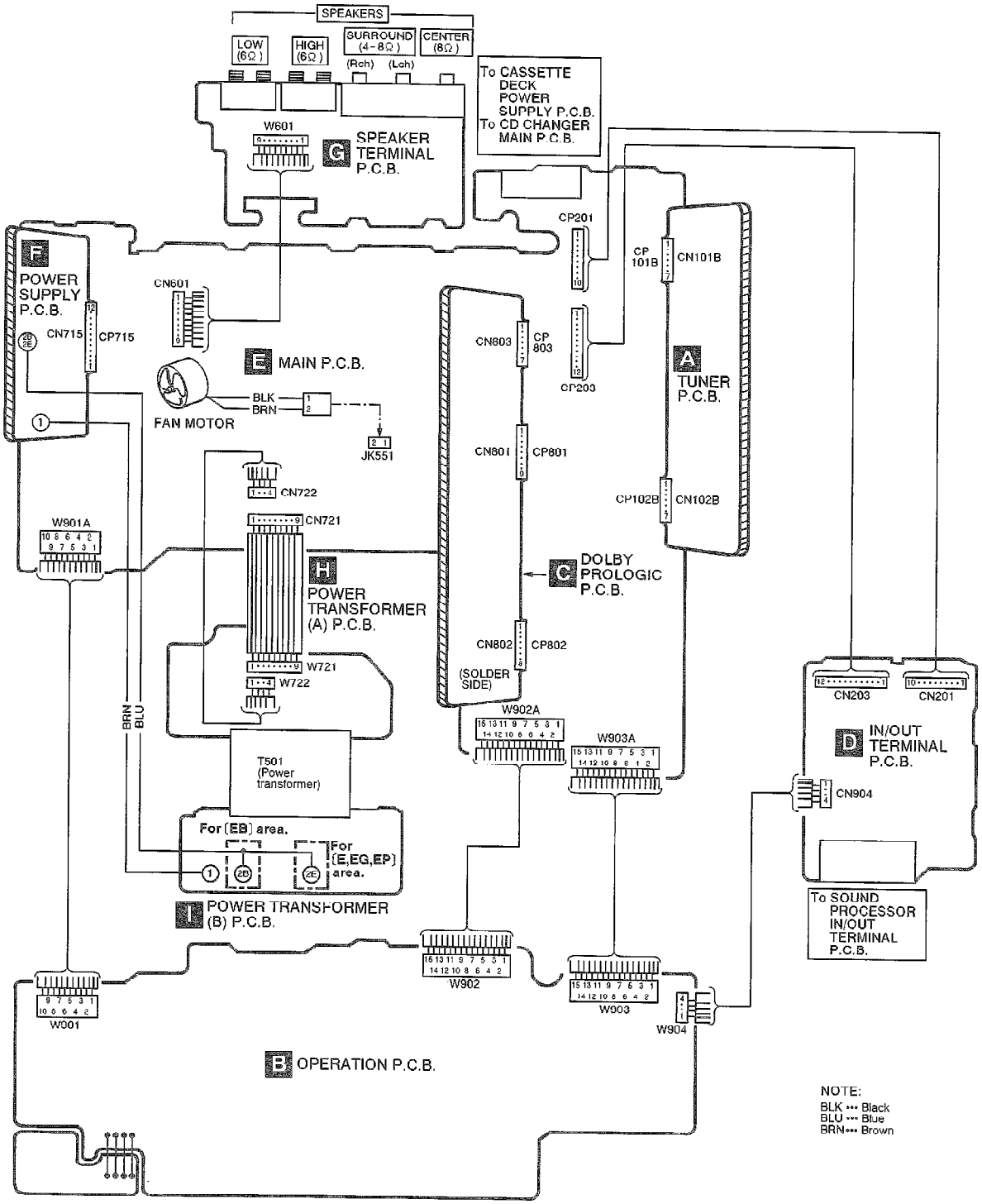

## H POWER TRANSFORMER (A) P.C.B.



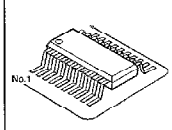

## I POWER TRANSFORMER (B) P.C.B.



# Wiring Connection Diagram

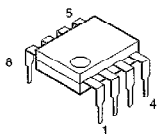


# ■ Type Illustration of IC's, Transistors and Diodes

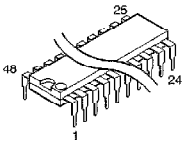


| | |
|---|---|
| AN6558SFE2 | 8PIN |
| LA1833MN-TLM | 24PIN |
| LC72131MDTLM | 20PIN |
| M5228FPE1 | 14PIN |
| M62425FPE1 | 36PIN |

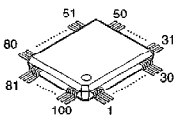
M5218AP



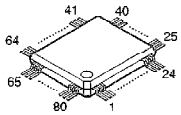
LV1030N



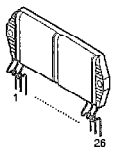
M38199MF107K

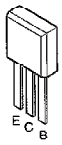


M62433AFP



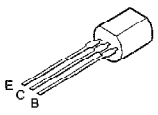
RSN307M44A



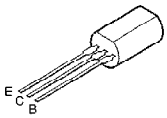


2SA1309AIRTA UN4111AITA
2SC2787LTA UN4112AITA
2SC3311AIQST UN4115TA
2SC3311ARSTA UN4211AITA
2SD1450STA UN4214AITA
UN411FTA

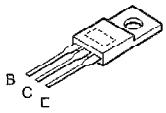
2SB621AQRSTA



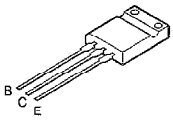
2SC3940AQSTA



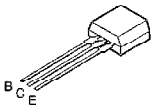
2SB1548PQAU
2SD2374PQAU



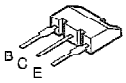
2SB1417PQTA
2SD2137PQTA



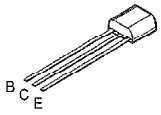
2SD2144STA



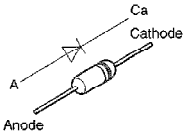
2SB1238QRTV2
2SD1859QRTV2



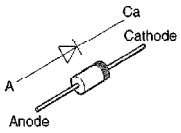
2SA1995RSTA
2SC5398RSTA

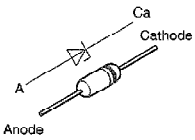


MA185TA



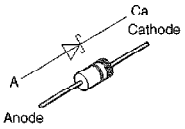
1N5402BF
RL1N4003N02

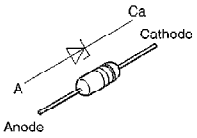




MA4100MTA
MA4120MTA
MA4140MTA
MA4150HTA
MA4180LTA
MA4300MTA

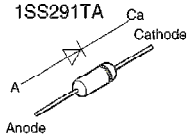
SB360L6508



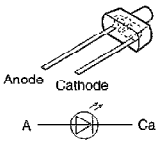


MA4020LTA
MA4030MTA
MA4039MTA
MA4051LTA
MA4051MTA
MA4062HTA
MA4082LTA

MA165TA
MA700TA
1SS291TA



LNJ301MPUJAD



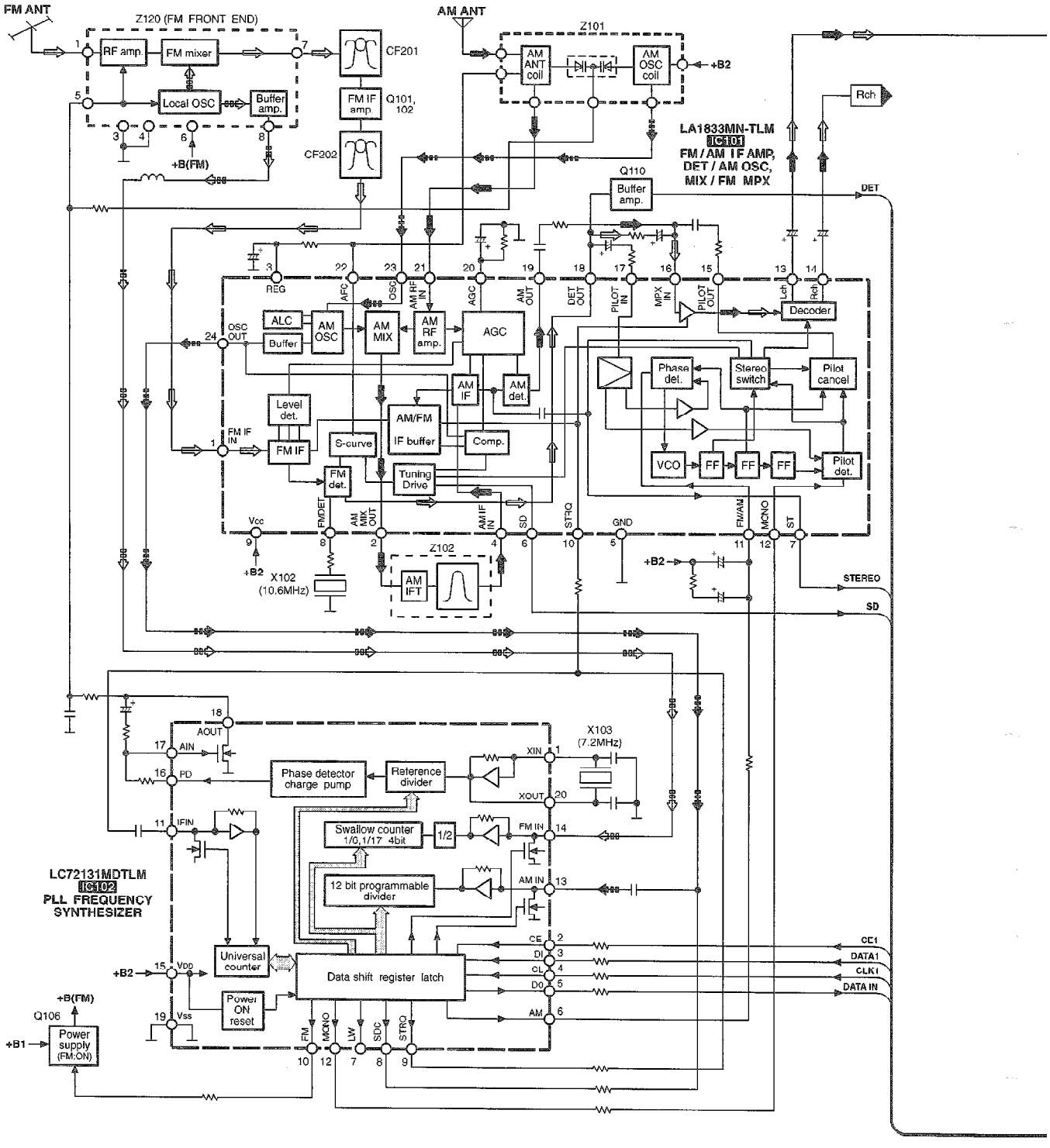
# ■ Terminal Function of IC's

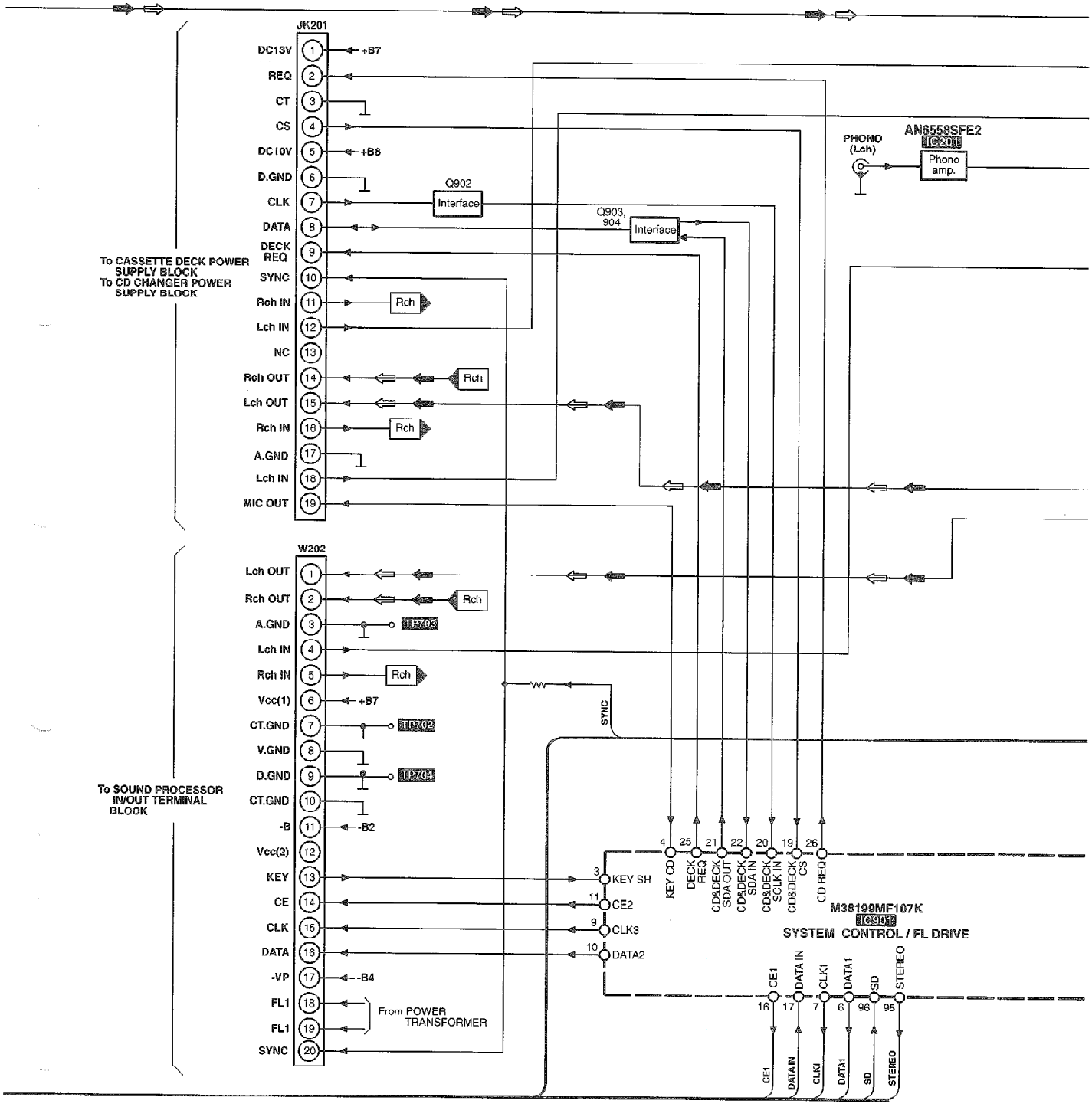
## • IC901 (M38199MF107K): System Control / FL Drive

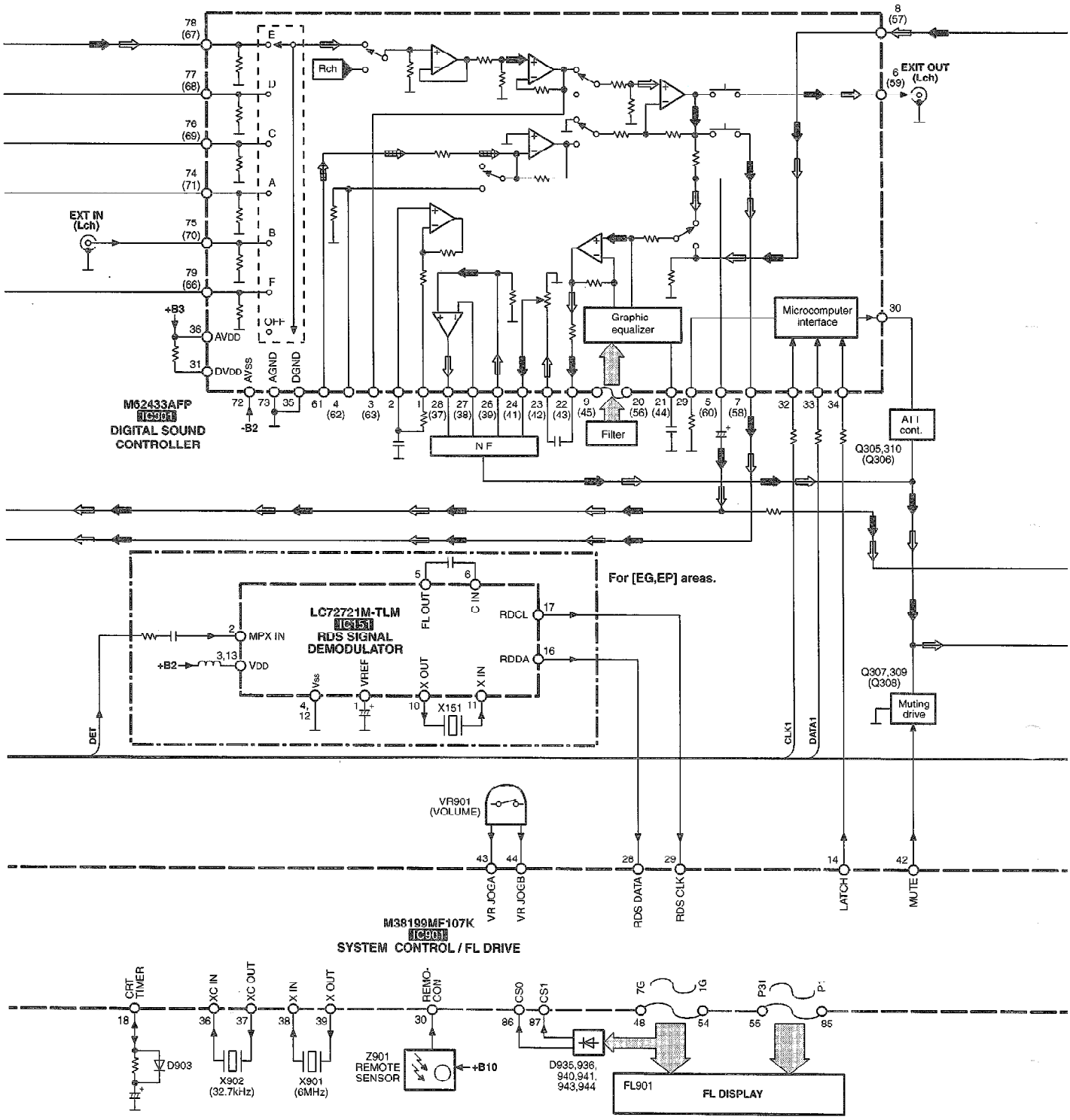
| Pin No. | Terminal Name | I/O | Function |
|---|---|---|---|
| 1 | KEY TU | I | Operation switch signal input (TUNER, TIMER, AMP. section) |
| 2 | KEY KRAOKE | I | Operation switch signal input (RDS section) |
| 3 | KEY SH | I | Sound processor operation switch signal input |
| 4 | KEY CD | I | CD changer operation switch signal input |
| 5 | KEY CD2 | I | Connected to VREF |
| 6 | DATA1 | O | Data signal output for M62433, M62425, LC72131 and LV1030 |
| 7 | CLK1 | O | Clock signal output for M62433, M62425, LC72131 and LV1030 |
| 8 | CLK2 | O | Clock signal output for M62425 (center and surround volume of dolby pro logic) |
| 9 | CLK3 | O | Serial communication signal to sound processor (Clock signal output) |
| 10 | DATA2 | O | Serial communication signal to sound processor (Data signal output) |
| 11 | CE2 | O | Serial communication signal to sound processor (Chip enable signal output) |
| 12 | SEL/TUNER | O | Not used |
| 13 | SEL/TUNER | O | Tuner circuit power control signal output |
| 14 | LATCH | O | Latch signal output to M62433 |
| 15 | REQ | O | Request signal output to LV1030 |
| 16 | CE1 | O | Chip enable signal output to LC72131 |
| 17 | DATA IN | I | Data signal input from LC72131 |
| 18 | CR TIMER | I/O | TIME CONSTANT terminal |
| 19 | CD & DECK CS | I | Serial data communication starting signal input (CD and DECK mechanism) |
| 20 | CD & DECK SCLK IN | I | Serial clock input (CD and DECK mechanism) |
| 21 | CD & DECK SDA OUT | O | Serial data output (CD and DECK mechanism) |
| 22 | CD & DECK SDA IN | I | Serial data input (CD and DECK mechanism) |
| 23 | HP SW | O | Headphones connecting detect signal input |
| 24 | SEL MD | O | Not used |
| 25 | DECK REQ | O | Cassette deck request signal output |
| 26 | CD REQ | O | CD changer request signal output |
| 27 | DPL & CHECK | O | Limiter control signal output |
| 28 | RDS DATA | I | Not used |
| 29 | RDS CLK | I | |
| 30 | REMOCON | I | Remote control signal input |
| 31, 32 | D1, D2 | O | Not used |
| 33 | ECHO | O | |

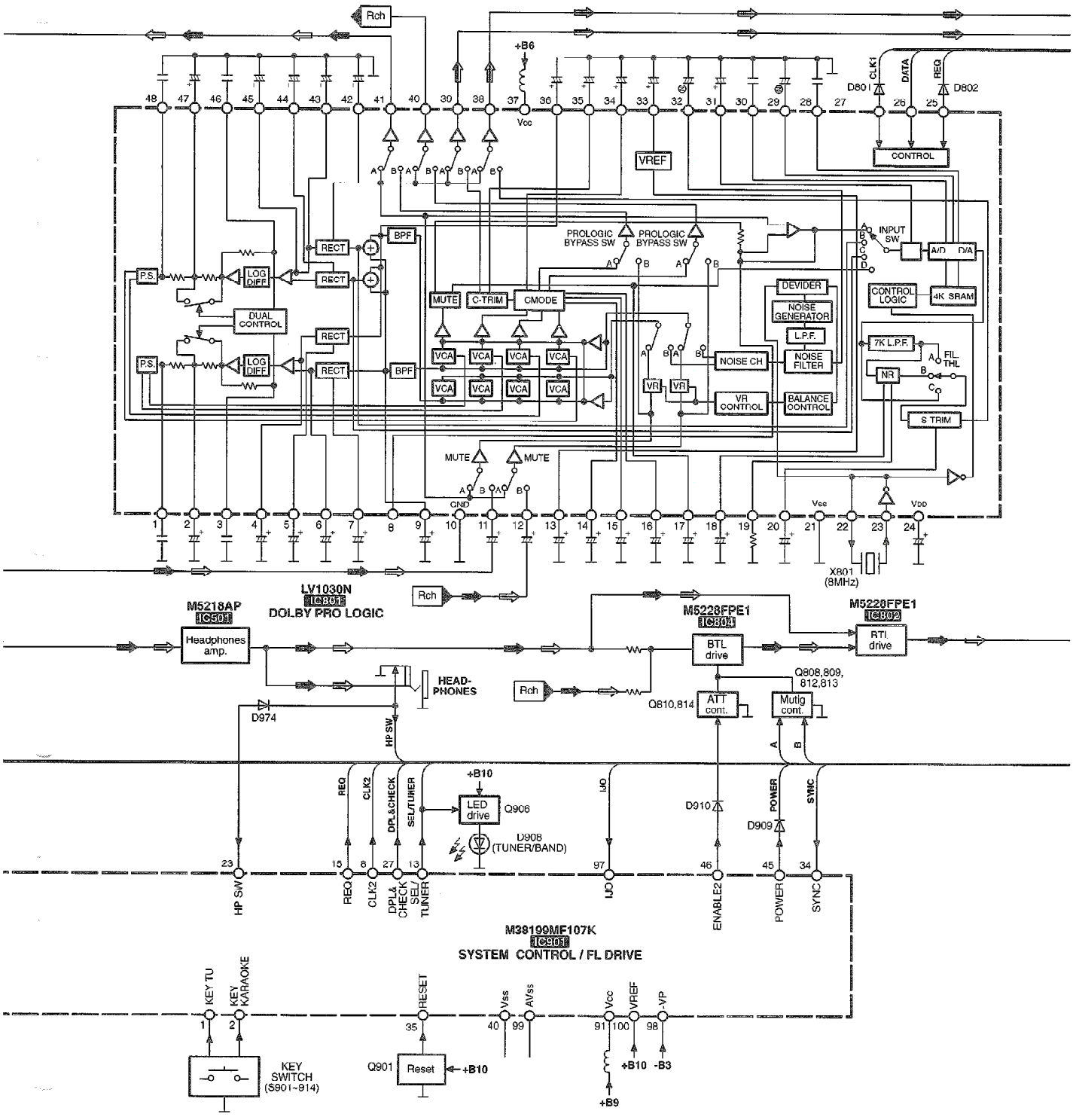
| Pin No. | Terminal Name | I/O | Function |
|---|---|---|---|
| 34 | SYNC | I | AC power source input terminal |
| 35 | RESET | I | Reset signal input |
| 36 | XC IN | I | Oscillator connected terminal (f ~ 32.7 kHz) |
| 37 | XC OUT | O | |
| 38 | X IN | I | Oscillator connected terminal (f = 5 MHz) |
| 39 | X OUT | O | |
| 40 | Vss | — | GND terminal |
| 41 | MIC DET | I | Microphone connecting detect signal input |
| 42 | MUTE | O | Muting signal output |
| 43 | VR JOGB | I | Volume control signal input |
| 44 | VR JOGA | I | |
| 45 | POWER | O | Power control signal output |
| 46 | ENABLE2 | O | Attenuator control signal output |
| 47 | NC | — | No used |
| 48~54 | 7G~1G | O | Grid signal and chip select scan signal output |
| 55~85 | P31~P1 | O | Segment signal output |
| 86, 87 | CS0, CS1 | I | Chip select signal input |
| 88 | SEL TAPE | O | Connected to VCC |
| 89 | MIC S1 | O | Microphone signal output (Not used) |
| 90 | MIC S2 | O | Microphone through signal output (Not used) |
| 91 | VCC | — | Power supply |
| 92 | VIBRATE | O | Not used, open |
| 93 | CHORUS | O | Not used, open |
| 94 | WIDE | O | Not used, open |
| 95 | STEREO | I | STEREO signal input for tuner circuit |
| 96 | SD | I | Station detector signal input for tuner circuit |
| 97 | IJO | I | Unusual condition detect terminal ("L": unusual) |
| 98 | -VP | — | Reference voltage input (negative) |
| 99 | AVSS | — | Connect to GND |
| 100 | VREF | — | Reference voltage input (positive) |

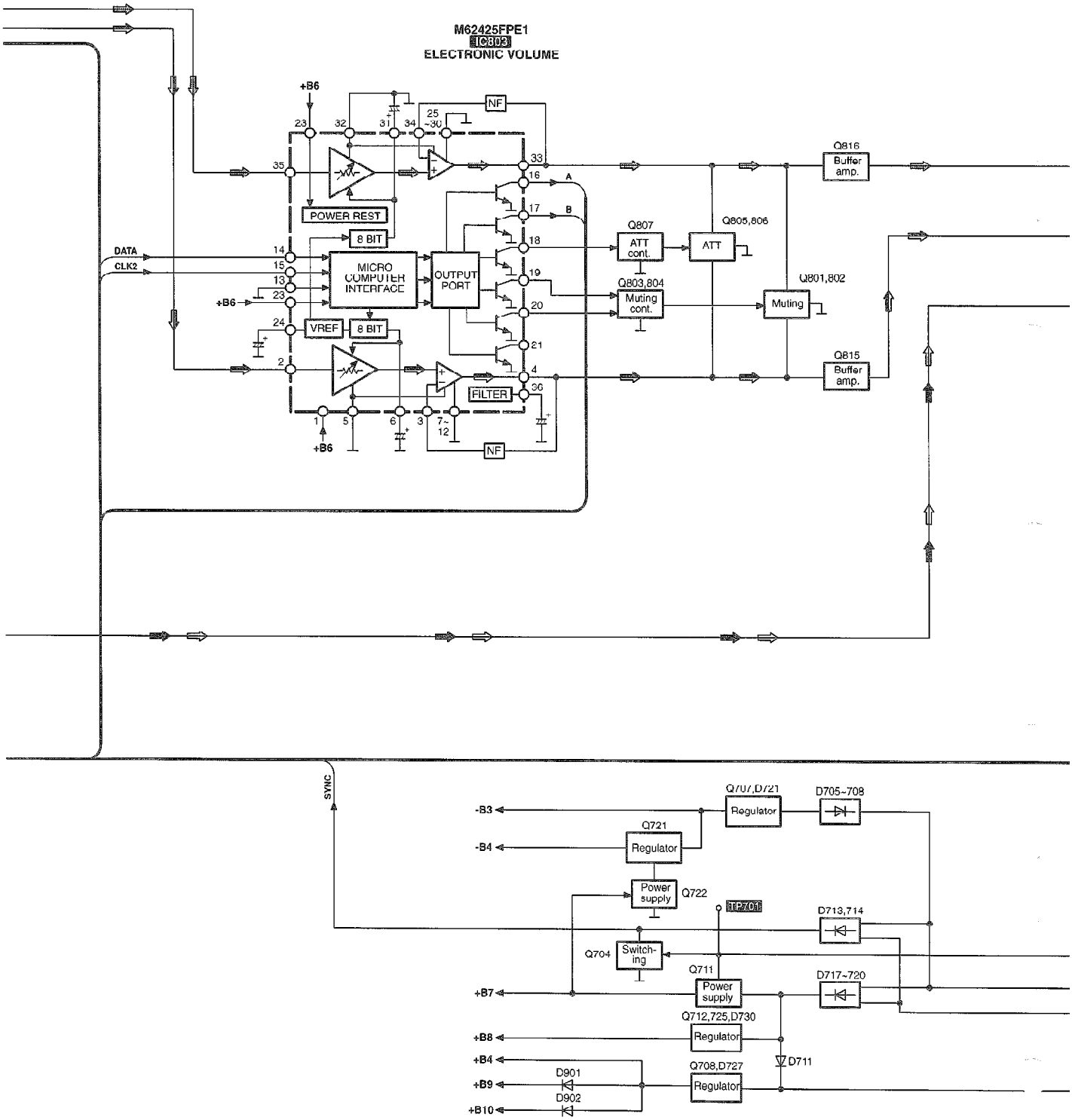
# Block Diagram

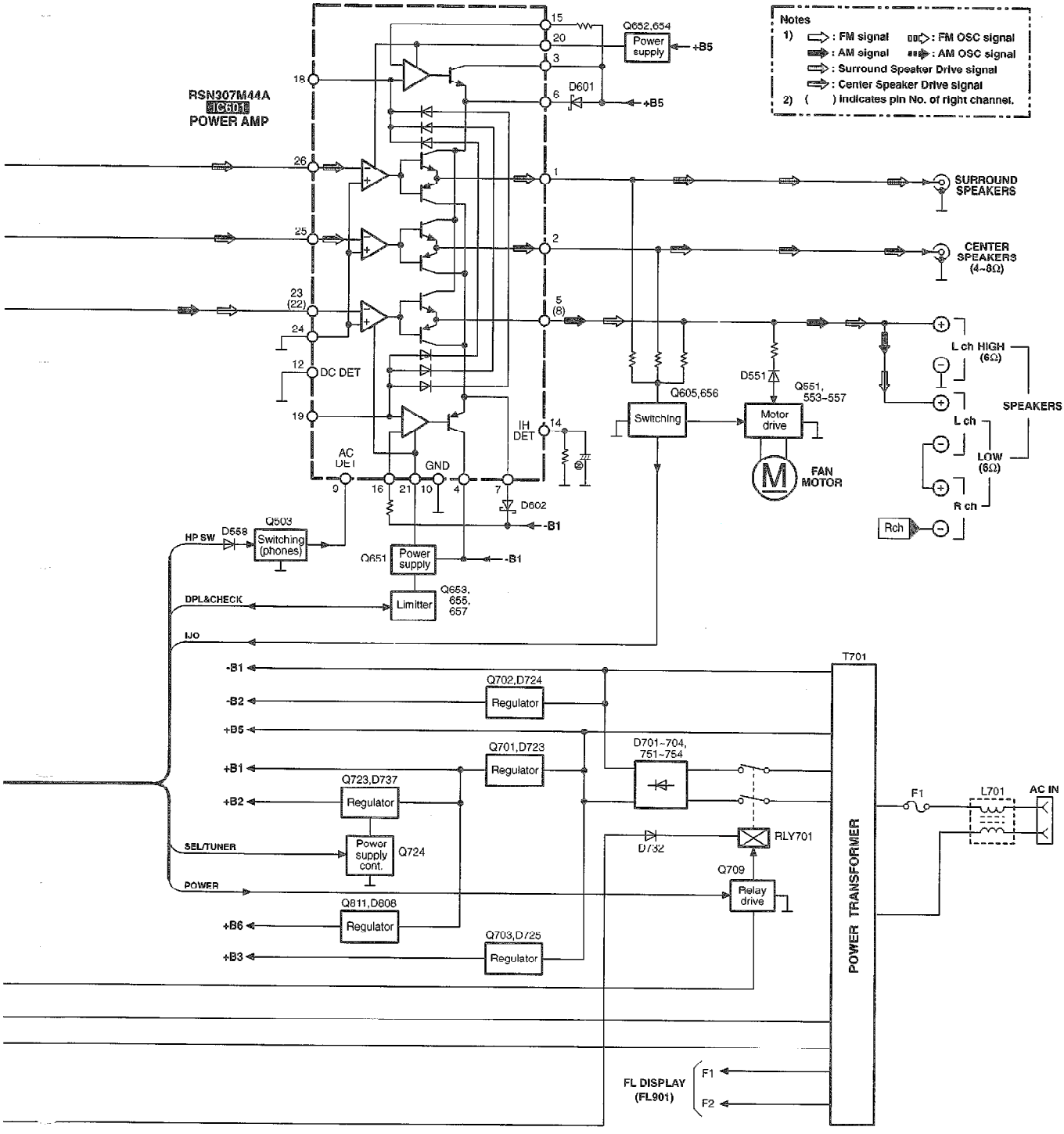



JK201
DC13V
REQ
CT
CS
DC10V
D.GND
CLK
DATA
DECK REQ
SYNC
Rch IN
Lch IN
NC
Rch OUT
Lch OUT
Rch IN
A.GND
Lch IN
MIC OUT
+B7
+B8
Q902
Interface
Q903, 904
Interface
Rch
PHONO (Lch)
AN6558SFE2
IC201
Phono amp.
To CASSETTE DECK POWER SUPPLY BLOCK
To CD CHANGER POWER SUPPLY BLOCK
W202
Lch OUT
Rch OUT
A.GND
Lch IN
Rch IN
Vcc(1)
CT.GND
V.GND
D.GND
CT.GND
-B
Vcc(2)
KEY
CE
CLK
DATA
-VP
FL1
FL1
SYNC
TP703
TP702
TP704
-B2
-B4
From POWER TRANSFORMER
To SOUND PROCESSOR IN/OUT TERMINAL BLOCK
SYNC
KEY SH
CE2
CLK3
DATA2
KEY CD
DECK REQ
CD&DECK SDA OUT
CD&DECK SDA IN
CD&DECK SCLK IN
CD&DECK CS
CD REQ
M38199MF107K
IC9051
SYSTEM CONTROL / FL DRIVE
CE1
DATA IN
CLK1
DATA1
SD
STEREO


EXT IN (Lch)
EXIT OUT (Lch)
Rch
Graphic equalizer
Microcomputer interface
Filter
N F
All cont.
Muting drive
M62433AFP
IC901
DIGITAL SOUND CONTROLLER
LC72721M-TLM
IC151
RDS SIGNAL DEMODULATOR
For [EG,EP] areas.
Q305,310 (Q306)
Q307,309 (Q308)
VR901 (VOLUME)
M38199MF107K
IC901
SYSTEM CONTROL / FL DRIVE
CRT TIMER
REMO-CON
Z901 REMOTE SENSOR
+B10
D903
X902 (32.7kHz)
X901 (6MHz)
D935,936, 940,941, 943,944
FL901
FL DISPLAY
VR JOGA
VR JOGB
RDS DATA
RDS CLK
LATCH
MUTE
CLK1
DATA1
DET


Rch
+B6
Vcc
CLK1
DATA
REQ
D801
D802
CONTROL
VREF
PROLOGIC BYPASS SW
PROLOGIC BYPASS SW
INPUT SW
A/D
D/A
RECT
BPF
P.S.
LOG DIFF
DUAL CONTROL
MUTE
C-TRIM
CMODE
VCA
DEVIDER
NOISE GENERATOR
L.P.F.
CONTROL LOGIC
4K SRAM
7K L.P.F.
FIL THL
NR
S TRIM
NOISE CH
NOISE FILTER
VR
VR CONTROL
BALANCE CONTROL
GND
Vee
VDD
X801
(8MHz)
LV1030N
IC801
DOLBY PRO LOGIC
M5218AP
IC501
Headphones amp.
M5228FPE1
IC804
BTL drive
M5228FPE1
IC802
RTI drive
HEAD-PHONES
D974
HP SW
Q808,809, 812,813
Q810,814
ATT cont.
Mutlg cont.
+B10
LED drive
Q906
D908
(TUNER/BAND)
D910
D909
IJO
POWER
SYNC
ENABLE2
DPL&CHECK
SEL/TUNER
M38199ME107K
IC901
SYSTEM CONTROL / FL DRIVE
KEY TU
KEY KARAOKE
RESET
Vss
AVss
Vcc
VREF
-VP
KEY SWITCH (S901~914)
Q901
Reset
+B10
-B3
+B9


M62425FPE1
IC803
ELECTRONIC VOLUME
+B6
NF
POWER REST
8 BIT
DATA
CLK2
MICRO COMPUTER INTERFACE
OUTPUT PORT
VREF
8 BIT
FILTER
NF
+B6
Q807
ATT cont.
Q805,806
ATT
Q803,804
Muting cont.
Q801,802
Muting
Q816
Buffer amp.
Q815
Buffer amp.
SYNC
-B3
Q717,D721
Regulator
D705~708
-B4
Q721
Regulator
Power supply
Q722
STP701
D713,714
Q704
Switch-ing
Q711
Power supply
D717~720
+B7
Q712,725,D730
Regulator
+B8
+B4
+B9
+B10
D901
D902
Q708,D727
Regulator
D711


RSN307M44A
IC601
POWER AMP
Notes
1) : FM signal : FM OSC signal
: AM signal : AM OSC signal
: Surround Speaker Drive signal
: Center Speaker Drive signal
2) ( ) indicates pin No. of right channel.
Q652,654
Power supply
+B5
D601
SURROUND SPEAKERS
CENTER SPEAKERS (4~8Ω)
DC DET
IH DET
AC DET
GND
Q605,656
Switching
D551
Q551, 553~557
Motor drive
FAN MOTOR
L ch HIGH (6Ω)
L ch
LOW (6Ω)
R ch
SPEAKERS
Rch
D602
-B1
HP SW
D558
Q503
Switching (phones)
Q651
Power supply
DPL&CHECK
Limitter
Q653, 655, 657
MO
T701
-B1
-B2
+B5
+B1
+B2
SEL/TUNER
POWER
+B6
+B3
Q702,D724
Regulator
Q701,D723
Regulator
Q723,D737
Regulator
Power supply cont.
Q724
Q811,D808
Regulator
Q703,D725
Regulator
D701~704, 751~754
D732
RLY701
Q709
Relay drive
POWER TRANSFORMER
F1
L701
AC IN
FL DISPLAY (FL901)
F1
F2

# Replacement Parts List

**Notes:** *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*All parts are supplied by MESA.

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| 1 | RKM0202F-H | CABINET | 1 | |
| 2 | RHD30007-K1 | SCREW | 4 | |
| 3 | XTBS3+10JFZ1 | SCREW | 1 | |
| 4 | RGW0183-H | KNOB, VOLUME | 1 | |
| 5 | RKA0011-3 | FOOT | 4 | |
| 5-1 | SHG1645 | RUBBER | 4 | |
| 6 | RKQ0089-2 | PCB SPACER | 6 | |
| 7 | RMN0203 | PCB HOLDER 1 | 1 | |
| 8 | RMN0427 | CABLE HOLDER | 1 | |
| 9 | RHD30070 | SCREW | 1 | |
| 10 | XTW3+15T | SCREW | 4 | |
| 11 | RMN0426 | FL HOLDER | 1 | |
| 12 | RMN0429 | PCB HOLDER 2 | 1 | |
| 13 | RMN0437 | PCB HOLDER 3 | 1 | |
| 14 | REZ1088 | FLAT CABLE(W901-04) | 1 | |
| 15 | XTBS3+8JFZ1 | SCREW | 2 | |
| 16 | REZ1076 | WIRE ASS'Y(W601) | 1 | |
| 17 | RFKGAEH600EH | FRONT PANEL ASS'Y | 1 | (E, EB) |
| 17 | RFKGAEH600EG | FRONT PANEL ASS'Y | 1 | (EG, EP) |
| 18 | REX0852 | WIRE ASS'Y | 1 | |
| 19 | RGK0894-N | ORNAMENT | 1 | |
| 20 | REM0057 | FAN UNIT | 1 | |
| 21 | RLBT4001-D | FERRITE CORE | 1 | |
| 22 | RHD26016 | SCREW | 1 | |
| 23 | RHN9N001 | NUT | 1 | |
| 24 | RKW0506B-Q | FL PANEL | 1 | |
| 25 | RWJ1809150KQ | FLAT CABLE(W721/9P) | 1 | |
| 26 | RWJ1804150KQ | FLAT CABLE(W722/4P) | 1 | |
| 27 | XTBS26+8J | SCREW | 5 | |
| 28 | XTB3+10JFZ | SCREW | 10 | |
| 29 | XTB3+20JFZ | SCREW | 6 | |
| 30 | XTB3+8JFZ | SCREW | 6 | |
| | | | | |
| A1 | RAK-CH219WH | REMOTE CONTROL TRANSMITTER | 1 | |
| A1-1 | RKK0057-K | BATTERY COVER | 1 | |
| A2 | REE0393 | SPEAKER CORD | 2 | |
| A3 | REE0853 | SPEAKER CORD | 2 | |
| ⚠ A4 | RJA0019-X | AC POWER SUPPLY CORD | 1 | (E, EG, EP) |
| ⚠ A4 | RJA0053-1X | AC POWER SUPPLY CORD | 1 | (EB) |
| A5 | RQA0117 | GUARRANTY CARD | 1 | (E, EB, EG) |
| A6 | RQT4299-E | OPERATION INSTRUCTIONS | 1 | (E) |
| A6 | RQT4300-D | OPERATION INSTRUCTIONS | 1 | (EG) |
| A6 | RQT4301-H | OPERATION INSTRUCTIONS | 1 | (EG) |
| A6 | RQT4302-B | OPERATION INSTRUCTIONS | 1 | (EB, EP) |
| A6 | RQT4303-R | OPERATION INSTRUCTIONS | 1 | (EP) |
| A7 | RSA0007 | FM INDOOR ANTENNA | 1 | |
| A8 | RSA0022-J | AM LOOP ANTENNA | 1 | |
| A9 | RQCB0169 | SERVICE CENTER LIST | 1 | (E, EB, EG) |
| A10 | RQCA0598 | QUICK REFERENCE GUIDE | 1 | (EB) |
| ⚠ A11 | SJP9009 | PLUG ADAPTOR | 1 | (EB) |
| | | | | |
| C101 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C102 | ECEA1CKA101B | 16V 100U | 1 | |
| C103 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C104, 05 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C106 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C107 | ECBT1H473ZF5 | 50V 0.047U | 1 | |
| C108 | ECBT1H8R2KC5 | 50V 8.2P | 1 | |
| C109 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C110 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C111 | ECEA1EKA4R7B | 25V 4.7U | 1 | |
| C112 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C113 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C114 | RCE1HKA3R3BG | 50V 3.3U | 1 | |
| C115 | ECEA1EKA4R7B | 25V 4.7U | 1 | |
| C116 | ECFR1C333KR | 16V 0.033U | 1 | |
| C117, 18 | ECFR1C183KR | 16V 0.0018U | 2 | |
| C119 | ECQP1391JZ3 | 100V 390P | 1 | |
| C120 | RCE1CKA100BG | 16V 10U | 1 | |
| C121 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C122, 23 | ECEA1HKA010B | 50V 1U | 2 | |
| C124 | ECBT1H101KB5 | 50V 100P | 1 | |
| C125 | ECEA1CKA220B | 16V 22U | 1 | |
| C126 | ECBT1H473ZF5 | 50V 0.047U | 1 | |
| | | | | |
| | | | | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C127 | ECEA1CKA220B | 16V 22U | 1 | |
| C129, 30 | ECEA0JKA101B | 6.3V 100U | 2 | |
| C131 | ECBT1H101KB5 | 50V 100P | 1 | |
| C132 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C133, 34 | ECBT1H270JU5 | 50V 27P | 2 | |
| C136 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C137 | ECFR1E472KR | 25V 4700P | 1 | |
| C138 | ECBT1C103KS5 | 16V 0.01U | 1 | |
| C139 | ECFR1E472KR | 25V 4700P | 1 | |
| C141, 42 | ECEA1HKA010B | 50V 1U | 2 | |
| C143, 44 | ECBT1C472KR5 | 16V 4700P | 2 | |
| C147 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C148 | ECBT1C103NS5 | 16V 0.01U | 1 | |
| C149 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C151 | RCE1CKA100BG | 16V 10U | 1 | (EG, EP) |
| C152 | ECBT1H331KB5 | 50V 330P | 1 | (EG, EP) |
| C154 | ECBT1H561KB5 | 50V 560P | 1 | (EG, EP) |
| C155 | ECBT1H102KB5 | 50V 1000P | 1 | (EG, EP) |
| C156, 57 | ECBT1H470J5 | 50V 47P | 2 | (EG, EP) |
| C158, 59 | ECEA0JKA470B | 6.3V 47U | 2 | (EG, EP) |
| C160 | ECBT1H102KB5 | 50V 1000P | 1 | (EG, EP) |
| C201, 02 | ECBT1H180J5 | 50V 18P | 2 | |
| C203, 04 | ECBT1H151KB5 | 50V 150P | 2 | |
| C205, 06 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C207, 08 | RCE1AKA330BG | 10V 33U | 2 | |
| C209, 10 | ECBT0J223MS5 | 16V 0.022U | 2 | |
| C211, 12 | ECBT1C682KR5 | 16V 6800P | 2 | |
| C213, 14 | RCE1CKA100BG | 16V 10U | 2 | |
| C215 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C217 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C219-26 | ECBT1H101KB5 | 50V 100P | 8 | |
| C229-34 | ECBT1H101KB5 | 50V 100P | 6 | |
| C235 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C236, 37 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C301 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C302, 03 | ECBT1H561KB5 | 50V 560P | 2 | |
| C309 | ECEA1HKAR22B | 50V 0.22U | 1 | |
| C310 | ECFR1C823MR | 16V 0.082U | 1 | |
| C312 | ECFR1C823MR | 16V 0.082U | 1 | |
| C313 | ECFR1C103KR | 16V 0.01U | 1 | |
| C315 | ECFR1C223KR | 16V 0.022U | 1 | |
| C316 | ECBT1C332KR5 | 16V 3300P | 1 | |
| C318 | ECBT1C682KR5 | 16V 6800P | 1 | |
| C319 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C320 | ECBT1H681KB5 | 50V 680P | 1 | |
| C321 | ECBT1C332KR5 | 16V 3300P | 1 | |
| C322 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C324 | RCE1CKA100BG | 16V 10U | 1 | |
| C325 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C326 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C327 | ECBT1H471KB5 | 50V 470P | 1 | |
| C328 | RCE1CKA470BG | 16V 47U | 1 | |
| C329 | ECEA1CKA220B | 16V 22U | 1 | |
| C330 | ECBT1H681KB5 | 50V 680P | 1 | |
| C331 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C332-34 | ECBT1H470J5 | 50V 47P | 3 | |
| C336 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C337 | RCE1CKA470BG | 16V 47U | 1 | |
| C338 | ECBT1H471KB5 | 50V 470P | 1 | |
| C339 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C340 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C341 | RCE1CKA100BG | 16V 10U | 1 | |
| C342 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C343 | ECEA1CKA22UB | 16V 22U | 1 | |
| C344 | ECBT1C332KR5 | 16V 3300P | 1 | |
| C346 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C347 | ECBT1C682KR5 | 16V 6800P | 1 | |
| C349 | ECBT1C332KR5 | 16V 3300P | 1 | |
| C350 | ECFR1C223KR | 16V 0.022U | 1 | |
| C352 | ECFR1C103KR | 16V 0.01U | 1 | |
| C353 | ECFR1C823MR | 16V 0.082U | 1 | |
| C355 | ECFR1C823MR | 16V 0.082U | 1 | |
| C356 | ECEA1HKAR22B | 50V 0.22U | 1 | |
| C357, 58 | ECQV1H104JM3 | 50V 0.1U | 2 | |
| C359 | RCE1HKA3R3BG | 50V 3.3U | 1 | |
| | | | | |
| | | | | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C360 | RCE1HKA4R7BG | 50V 4.7U | 1 | |
| C361,62 | ECBT1C222KR5 | 16V 2200P | 2 | |
| C364 | ECBT1C152KR5 | 16V 1500P | 1 | |
| C365 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C371 | ECEA0JKA101B | 6.3V 100U | 1 | |
| C372 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C381 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C385,86 | RCE1CKA100BG | 16V 10U | 2 | |
| C395,96 | ECBT1H473ZF5 | 50V 0.047U | 2 | |
| C501-06 | ECBT1H101KB5 | 50V 100P | 6 | |
| C507,08 | RCE1CKA100BG | 16V 10U | 2 | |
| C509-12 | ECBT1E103ZF5 | 25V 0.01U | 4 | |
| C515 | ECEA1CKA330B | 16V 33U | 1 | |
| C550 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C551 | ECEA1HKA2R2B | 50V 2.2U | 1 | |
| C552 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C554 | ECA1AM221B | 10V 220U | 1 | |
| C555,56 | ECEA1CKN100B | 16V 10U | 2 | |
| C559 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C604,05 | RCE1CKA100BG | 16V 10U | 2 | |
| C607-10 | ECBT1H471KB5 | 50V 470P | 4 | |
| C611-14 | ECBT1H150JC5 | 50V 15P | 4 | |
| C615,16 | ECKR2H103ZU | 500V 0.01U | 2 | |
| C617 | ECEA1HN2R2SB | 50V 2.2U | 1 | |
| C618 | ECA1HM101B | 50V 100U | 1 | |
| C620,21 | ECQV1H473JM3 | 50V 0.047U | 2 | |
| C624,25 | ECQV1H473JM3 | 50V 0.047U | 2 | |
| C628,29 | RCE1CKA100BG | 16V 10U | 2 | |
| C631,32 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C633 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C654 | ECEA1EKN3R3B | 25V 3.3U | 1 | |
| C655 | ECA2AM010B | 100V 1U | 1 | |
| C656 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C657 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| ⚠ C701-04 | ECA1VM472E | 35V 4700U | 4 | |
| C705 | RCE1CKA100BG | 16V 10U | 1 | |
| C706 | RCE1VKA100BG | 35V 10U | 1 | |
| C707 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C708 | RCE1CKA100BG | 16V 10U | 1 | |
| C709 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C710 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C711 | RCE1EM471BV | 25V 470U | 1 | |
| C714 | ECBT1H102KB5 | 50V 1000P | 1 | |
| ⚠ C715 | ECA1EM472E | 25V 4700U | 1 | |
| C717 | ECEA1CKA330B | 16V 33U | 1 | |
| C718 | RCE1AKA101BG | 10V 100U | 1 | |
| C719,20 | ECBT1E103ZF5 | 25V 0.01U | 2 | |
| C721 | RCE1AKA101BG | 10V 100U | 1 | |
| C723 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C725 | RCE1CKA100BG | 16V 10U | 1 | |
| C726 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C731 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C732 | ECBT1E223ZF5 | 25V 0.022U | 1 | |
| C733 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C734 | RCE1CKA100BG | 16V 10U | 1 | |
| ⚠ C736 | ECA1EM101B | 16V 220UF | 1 | |
| ⚠ C737,38 | ECA1HM101B | 50V 100U | 2 | |
| ⚠ C739 | ECA1JM101B | 63V 100U | 1 | |
| C740 | RCE1CKA100BG | 16V 10U | 1 | |
| C741 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C751,52 | ECA1AM471B | 10V 470U | 2 | |
| C753 | ECBT1H101KB5 | 50V 100P | 1 | |
| C761 | ECQE1104KF3 | 100V 0.1U | 1 | |
| C801 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C802 | RCE1HKA3R3BG | 50V 3.3U | 1 | |
| C803 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C804 | RCE1HKA4R7BG | 50V 4.7U | 1 | |
| C805 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C806 | RCE1HKA4R7BG | 50V 4.7U | 1 | |
| C807 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C808 | RCE1CKA100BG | 16V 10U | 1 | |
| C809 | ECEA1HKA010B | 50V 1U | 1 | |
| C810 | ECBT1C103ZF5 | 25V 0.01U | 1 | |
| C811,12 | ECEA1CKA330B | 16V 33U | 2 | |
| C813 | ECA1CM221B | 16V 220U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C814-17 | RCE1CKA100BG | 16V 10U | 4 | |
| C818 | ECEA1HKA2R2B | 50V 2.2U | 1 | |
| C819 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C820 | ECEA1HKAR33B | 50V 0.33UF | 1 | |
| C821 | ECA1CM221B | 16V 220U | 1 | |
| C822,23 | ECBT1H101KB5 | 50V 100P | 2 | |
| C824 | ECA1CM221B | 16V 220U | 1 | |
| C825,26 | ECBT1H101KB5 | 50V 100P | 2 | |
| C827 | ECBT1H330J5 | 50V 33P | 1 | |
| C828 | ECFR1C823MR | 16V 0.082U | 1 | |
| C829 | ECFR1E332KR | 25V 3300P | 1 | |
| C830 | ECFR1C823MR | 16V 0.082U | 1 | |
| C831 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C832 | ECQV1H473JM3 | 50V 0.047U | 1 | |
| C833 | ECA1CM221B | 16V 220U | 1 | |
| C834 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C835 | RCE1AKA470BG | 10V 47U | 1 | |
| C836 | ECEA1HKA010B | 50V 1U | 1 | |
| C837 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C838,39 | ECBT1H101KB5 | 50V 100P | 2 | |
| C840,41 | RCE1CKA100BG | 16V 10U | 2 | |
| C842 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C843 | RCE1HKA4R7BG | 50V 4.7U | 1 | |
| C844 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C845 | RCE1HKA4R7BG | 50V 4.7U | 1 | |
| C846 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C847 | RCE1HKA3R3BG | 50V 3.3U | 1 | |
| C848 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C849,50 | RCE1CKA100BG | 16V 10U | 2 | |
| C851 | RCE1CKA470BG | 16V 47U | 1 | |
| C852 | ECBT1H681KB5 | 50V 680P | 1 | |
| C853 | ECQV1H473JM3 | 50V 0.047U | 1 | |
| C854 | ECQV1H683JM3 | 50V 0.068U | 1 | |
| C855 | ECQV1H473JM3 | 50V 0.047U | 1 | |
| C856 | ECQV1H683JM3 | 50V 0.068U | 1 | |
| C859,60 | ECBT1H101KB5 | 50V 100P | 2 | |
| C861,62 | RCE1CKA100BG | 16V 10U | 2 | |
| C863,64 | ECEA1CKA220B | 16V 22U | 2 | |
| C865,66 | RCE1HKA3R3BG | 50V 3.3U | 2 | |
| C867-69 | ECEA1CKA330B | 16V 33U | 3 | |
| C870 | RCE1CKA100BG | 16V 10U | 1 | |
| C871,72 | ECBT1H470J5 | 50V 47P | 2 | |
| C873,74 | ECEA0JKA470B | 6.3V 47U | 2 | |
| C875 | ECQV1H823JM3 | 50V 0.082U | 1 | |
| C876 | ECFA1CKA330R | 16V 33U | 1 | |
| C877 | ECEA0JKA101B | 6.3V 100U | 1 | |
| C878 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C879 | ECFR1C683KR | 16V 0.068U | 1 | |
| C880 | ECFR1C333KR | 16V 0.033U | 1 | |
| C881 | ECQV1H154JM3 | 50V 0.15U | 1 | |
| C882 | ECEA1CKA101B | 16V 100U | 1 | |
| C884 | ECQV1H104JM3 | 50V 0.1U | 1 | |
| C885 | ECBT1C472KR5 | 16V 4700P | 1 | |
| C886 | ECBT1H101KB5 | 50V 100P | 1 | |
| C887 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C888,89 | ECBT1H221KB5 | 50V 220P | 2 | |
| C890 | RCE1AKA330BG | 10V 33U | 1 | |
| C891,92 | RCE1AKA470BG | 10V 47U | 2 | |
| C893,94 | RCE1CKA100BG | 16V 10U | 2 | |
| C901 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C902 | ECA0JM102B | 6.3V 1000U | 1 | |
| C903,04 | ECBT1E103ZF5 | 25V 0.01U | 2 | |
| C905-08 | ECBT1H471KB5 | 50V 470P | 4 | |
| C909 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C910 | ECBT1H150JC5 | 50V 15P | 1 | |
| C911 | ECBT1H180JC5 | 50V 18P | 1 | |
| C912 | ECBT1H104ZF5 | 50V 0.1U | 1 | |
| C913 | RCE1CKA100BG | 16V 10U | 1 | |
| C914 | ECEA1HKA2R2B | 50V 2.2U | 1 | |
| C915 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C916 | ECA0JKF101B | 6.3V 100U | 1 | |
| C917 | ECBT1E103ZF5 | 25V 0.01U | 1 | |
| C918 | ECEA0JKA221B | 6.3V 220U | 1 | |
| C919,20 | ECEA1HKS2R2B | 50V 2.2U | 2 | |
| C921 | ECBT1H102KB5 | 50V 1000P | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C922 | ECEA1VKA330B | 35V 33U | 1 | |
| C1101,02 | ECBT1H473ZF5 | 50V 0.047U | 2 | |
| C1103-06 | ECBT1H102KB5 | 50V 1000P | 4 | |
| C1107,08 | ECBT1H473ZF5 | 50V 0.047U | 2 | |
| C1109-12 | ECBT1H102KB5 | 50V 1000P | 4 | |
| C1113,14 | ECBT1H473ZF5 | 50V 0.047U | 2 | |
| | | | | |
| CF201 | RLFFETMGD01L | CERAMIC FILTER | 1 | |
| CF202 | RLFFETMGD01L | CERAMIC FILTER | 1 | |
| | | | | |
| CN101B,2B | RJU100W07 | CONNECTOR(7P) | 2 | |
| CN201 | RJU057W010 | CONNECTOR(10P) | 1 | |
| CN203 | RJU057W012 | CONNECTOR(12P) | 1 | |
| CN601 | SJT30943-V | CONNECTOR(9P) | 1 | |
| CN701-09 | RJS1A1101T1 | CONNECTOR(1P) | 9 | |
| CN711-13 | RJS1A1101T1 | CONNECTOR(1P) | 3 | |
| CN715 | RJU057W012 | CONNECTOR(12P) | 1 | |
| CN721 | SJT30943-V | CONNECTOR(9P) | 1 | |
| CN722 | SJT30443-V | CONNECTOR(4P) | 1 | |
| CN801 | RJU057W009 | CONNECTOR(9P) | 1 | |
| CN802 | RJU057W008 | CONNECTOR(8P) | 1 | |
| CN803 | RJU057W007 | CONNECTOR(7P) | 1 | |
| CN904 | RJS4T7ZA | CONNECTOR(4P) | 1 | |
| | | | | |
| CP101B,2B | RJT100W07 | CONNECTOR(7P) | 2 | |
| CP201 | RJT057W010-1 | CONNECTOR(10P) | 1 | |
| CP203 | RJT057W012-1 | CONNECTOR(12P) | 1 | |
| CP715 | RJT057W012-1 | CONNECTOR(12P) | 1 | |
| CP801 | RJT057W009-1 | CONNECTOR(9P) | 1 | |
| CP802 | RJT057W008-1 | CONNECTOR(8P) | 1 | |
| CP803 | RJT057W007-1 | CONNECTOR(7P) | 1 | |
| | | | | |
| ⚠ D101 | MA4051MTA | DIODE | 1 | |
| D151 | MA4051MTA | DIODE | 1 | (EG,EP) |
| D331 | MA4051LTA | DIODE | 1 | |
| ⚠ D515 | MA4140MTA | DIODE | 1 | |
| D551,52 | MA165 | DIODE | 2 | |
| D553 | MA700TA | DIODE | 1 | |
| D554 | MA165 | DIODE | 1 | |
| D555 | MA4100MTA | DIODE | 1 | |
| D558 | MA165 | DIODE | 1 | |
| D559,60 | MA4020LTA | DIODE | 2 | |
| D601,02 | SB360L6508 | DIODE | 2 | |
| ⚠ D651 | MA4180LTA | DIODE | 1 | |
| ⚠ D652,53 | MA4140MTA | DIODE | 2 | |
| D654 | MA4030MTA | DIODE | 1 | |
| D655 | MA185TA | DIODE | 1 | |
| D657,58 | MA165 | DIODE | 2 | |
| ⚠ D701-04 | 1N5402BF | DIODE | 4 | |
| ⚠ D705-08 | RL1N4003N02 | DIODE | 4 | |
| D709 | MA165 | DIODE | 1 | |
| D710 | MA4051MTA | DIODE | 1 | |
| D711 | RL1N4003N02 | DIODE | 1 | |
| ⚠ D713,14 | MA185TA | DIODE | 2 | |
| D715 | MA165 | DIODE | 1 | |
| ⚠ D717-20 | RL1N4003N02 | DIODE | 4 | |
| ⚠ D721 | MA4300MTA | DIODE | 1 | |
| ⚠ D723 | MA4150M | DIODE | 1 | |
| ⚠ D725 | MA4082LTA | DIODE | 1 | |
| ⚠ D727 | MA4062-H | DIODE | 1 | |
| ⚠ D730 | MA4100MTA | DIODE | 1 | |
| D732-36 | MA165 | DIODE | 5 | |
| ⚠ D737 | MA4082LTA | DIODE | 1 | |
| D738,39 | MA165 | DIODE | 2 | |
| ⚠ D751,52 | 1N5402BF | DIODE | 2 | |
| ⚠ D753-55 | RL1N4003N02 | DIODE | 3 | |
| D801-05 | MA165 | DIODE | 5 | |
| ⚠ D808 | MA4120MTA | DIODE | 1 | |
| D901,02 | 1SS291TA | DIODE | 2 | |
| D903,04 | MA165 | DIODE | 2 | |
| D905 | 1SS291TA | DIODE | 1 | |
| D906,07 | MA165 | DIODE | 2 | |
| D908 | LNJ301MPUJAD | LED | 1 | |
| D909,10 | MA165 | DIODE | 2 | |
| D933 | MA165 | DIODE | 1 | (EG,EP) |
| | | | | |
| | | | | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D935,36 | MA165 | DIODE | 2 | |
| D940,41 | MA165 | DIODE | 2 | |
| D943,44 | MA165 | DIODE | 2 | |
| D971,72 | MA165 | DIODE | 2 | |
| ⚠ D973 | MA4039MTA | DIODE | 1 | |
| D974 | MA165 | DIODE | 1 | |
| | | | | |
| E601 | SNE1004-2 | EARTH TERMINAL | 1 | |
| E603 | SNE1004-2 | EARTH TERMINAL | 1 | |
| | | | | |
| ⚠ F1 | XBA2C20TB0 | FUSE | 1 | |
| | | | | |
| FC1,C2 | EYF52BC | FUSE HOLDER | 2 | |
| | | | | |
| FL901 | RSL0251-F | DISPLAY TUBE | 1 | |
| | | | | |
| IC101 | LA1833MN-TLM | IC | 1 | |
| IC102 | LC72131MDTLM | IC | 1 | |
| IC151 | LC72721M-TLM | IC | 1 | (EG,EP) |
| IC201 | AN6558SFE2 | IC | 1 | |
| IC301 | M62433AFP | IC | 1 | |
| IC501 | M5218AP | IC | 1 | |
| ⚠ IC601 | RSN307M44A | IC | 1 | |
| IC801 | LV1030N | IC | 1 | |
| IC802 | M5228FPE1 | IC | 1 | |
| IC803 | M62425FPE1 | IC | 1 | |
| IC804 | M5228FPE1 | IC | 1 | |
| IC901 | M38199MF107K | IC | 1 | |
| | | | | |
| JK101 | RJH5210M | ANTENNA | 1 | |
| JK201 | RJT065K19 | SYSTEM | 1 | |
| JK203 | SJF3068-7N | EXT IN | 1 | |
| JK204 | SJF3069-5N | EXT OUT,PHONO | 1 | |
| JK501 | RJR0054B | SPEAKER | 1 | |
| JK502 | RJH3301-J | SURROUND/CENTER SPEAKER | 1 | |
| JK503 | RJR0054C | SPEAKER | 1 | |
| JK551 | SJT3213 | FAN MOTOR | 1 | |
| JK701 | SJS9236 | AC INLET | 1 | |
| JK903 | RJJ37TN01 C | HEADPHONES | 1 | |
| | | | | |
| L101,02 | ELESNR68MA | COIL | 2 | |
| L103 | ELEXTR47MA9 | COIL | 1 | |
| L151,52 | ELEXT101KA9 | COIL | 2 | (EG,EP) |
| L601-04 | RLQYR73MW1-0 | COIL | 4 | |
| ⚠ L701 | RLQZ271M-K | COIL | 1 | |
| L801 | ELEXT1R0KA9 | COIL | 1 | |
| L901 | RLQA100JT-Y | COIL | 1 | |
| | | | | |
| P1 | RPP0139 | POLYETHYLENE COVER | 1 | |
| P2 | RPG3514 | PACKING CASE(SH-EH600) | 1 | |
| P2 | RPG3515 | PACKING CASE(RS-EH600) | 1 | |
| P2 | RPG3516 | PACKING CASE(SL-EH600) | 1 | |
| P2 | RPG3517 | PACKING CASE(SA-EH600) | 1 | |
| P3 | RPG3863 | PACKING CASE(SYSTEM) | 1 | (E) |
| P3 | RPG3864 | PACKING CASE(SYSTEM) | 1 | (EP) |
| P3 | RPG3943 | PACKING CASE(SYSTEM) | 1 | (EG) |
| P3 | RPG3944 | PACKING CASE(SYSTEM) | 1 | (EB) |
| P4 | RPN1037 | PAD(RS-EH600) | 1 | |
| P4 | RPN1038 | PAD(SH-EH600) | 1 | |
| P4 | RPN1039-1 | PAD(SL-EH600) | 1 | |
| P4 | RPN1117 | PAD(SA-EH500) | 1 | |
| P5 | RPQD769 | SPACER | 1 | |
| P6 | SPP740 | SHEET | 1 | |
| | | | | |
| Q101,02 | 2SC2787L | TRANSISTOR | 2 | |
| Q106 | UN4111 | TRANSISTOR | 1 | |
| Q110 | 2SC3311AR | TRANSISTOR | 1 | |
| Q305,06 | 2SD1450STA | TRANSISTOR | 2 | |
| Q307,08 | 2SD2144STA | TRANSISTOR | 2 | |
| Q309,10 | UN4116TA | TRANSISTOR | 2 | |
| Q503 | 2SD1450STA | TRANSISTOR | 1 | |
| Q551 | 2SA1995RSTA | TRANSISTOR | 1 | |
| Q553 | 2SD2144STA | TRANSISTOR | 1 | |
| Q554 | 2SA1995RSTA | TRANSISTOR | 1 | |
| Q555 | 2SD2144STA | TRANSISTOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q556 | 2SC5398RSTA | TRANSISTOR | 1 | |
| Q557 | 2SA1995RSTA | TRANSISTOR | 1 | |
| Q605 | 2SC5398RSTA | TRANSISTOR | 1 | |
| ⚠ Q651 | 2SB1238QRTV2 | TRANSISTOR | 1 | |
| Q652 | 2SD1859QRTV2 | TRANSISTOR | 1 | |
| Q653 | UN4112A1TA | TRANSISTOR | 1 | |
| Q654 | 2SD1859QRTV2 | TRANSISTOR | 1 | |
| Q655 | UN4211TA | TRANSISTOR | 1 | |
| Q656 | 2SC5398RSTA | TRANSISTOR | 1 | |
| Q657 | 2SB1238QRTV2 | TRANSISTOR | 1 | |
| ⚠ Q701 | 2SD2374PQAU | TRANSISTOR | 1 | |
| ⚠ Q702 | 2SB1548PQAU | TRANSISTOR | 1 | |
| ⚠ Q703 | 2SD2374PQAU | TRANSISTOR | 1 | |
| Q704 | UN4211TA | TRANSISTOR | 1 | |
| Q705 | 2SA1995RSTA | TRANSISTOR | 1 | |
| ⚠ Q707 | 2SB621AQRSTA | TRANSISTOR | 1 | |
| ⚠ Q708 | 2SD2137PQTA | TRANSISTOR | 1 | |
| Q709 | 2SD2144STA | TRANSISTOR | 1 | |
| Q711 | 2SB1417PQTA | TRANSISTOR | 1 | |
| ⚠ Q712 | 2SB1548PQAU | TRANSISTOR | 1 | |
| Q718 | UN4111 | TRANSISTOR | 1 | |
| Q719,20 | 2SD1450STA | TRANSISTOR | 2 | |
| Q721 | 2SC3311A1QST | TRANSISTOR | 1 | |
| Q722 | 2SA1309A1RTA | TRANSISTOR | 1 | |
| ⚠ Q723 | 2SC3940AQSTA | TRANSISTOR | 1 | |
| Q724 | UN4211TA | TRANSISTOR | 1 | |
| ⚠ Q725 | 2SC5398RSTA | TRANSISTOR | 1 | |
| Q801,02 | 2SD1450STA | TRANSISTOR | 2 | |
| Q803,04 | UN4115TA | TRANSISTOR | 2 | |
| Q805,06 | 2SD1450STA | TRANSISTOR | 2 | |
| Q807 | UN4115TA | TRANSISTOR | 1 | |
| Q808-10 | 2SD1450STA | TRANSISTOR | 3 | |
| ⚠ Q811 | 2SD2137PQTA | TRANSISTOR | 1 | |
| Q812,13 | UN4115TA | TRANSISTOR | 2 | |
| Q814 | UN4211TA | TRANSISTOR | 1 | |
| Q815,16 | 2SC3311A1QST | TRANSISTOR | 2 | |
| Q901 | UN4214TA | TRANSISTOR | 1 | |
| Q902-04 | 2SC3311A1QST | TRANSISTOR | 3 | |
| Q906 | UN411FTA | TRANSISTOR | 1 | |
| | | | | |
| R102 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R103 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R104 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R105 | ERDS2TJ471T | 1/4W 470 | 1 | |
| R106 | ERDS2FJ474 | 1/4W 470K | 1 | |
| R107 | ERDS2TJ331T | 1/4W 330 | 1 | |
| R108 | ERDS2FJ474 | 1/4W 470K | 1 | |
| R109 | ERDS2TJ331T | 1/4W 330 | 1 | |
| R110 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R111 | ERDS2TJ391T | 1/4W 390 | 1 | |
| R112 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R113 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R114 | ERDS2TJ562 | 1/4W 5.6K | 1 | |
| R115 | ERDS2TJ561T | 1/4W 560 | 1 | |
| R116 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R117 | ERDS2TJ683T | 1/4W 68K | 1 | |
| R118 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R119 | ERDS2TJ103T | 1/4W 10K | 1 | |
| R120 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R121 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R122 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R123 | ERDS2TJ683T | 1/4W 68K | 1 | |
| R124 | ERDS2TJ271T | 1/4W 270 | 1 | |
| R125,26 | ERDS2TJ152T | 1/4W 1.5K | 2 | |
| R127 | ERDS2TJ471T | 1/4W 470 | 1 | |
| R128 | ERDS2TJ820T | 1/4W 82 | 1 | |
| R129 | ERDS2TJ273T | 1/4W 27K | 1 | |
| R130 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R131 | ERDS2FJ680 | 1/4W 68 | 1 | |
| R132 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R133-37 | ERDS2FJ102 | 1/4W 1K | 5 | |
| R138 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R139 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R140 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R141,42 | ERDS2FJ102 | 1/4W 1K | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R143 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R145,46 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R151,52 | ERDS2TJ102T | 1/4W 1K | 2 | (EG,EP) |
| R153,54 | ERDS2TJ104T | 1/4W 100K | 2 | (EG,EP) |
| R155 | ERDS2TJ121T | 1/4W 120 | 1 | (EG,EP) |
| R158,59 | ERDS2TJ102T | 1/4W 1K | 2 | (EG,EP) |
| R201,02 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R203,04 | ERDS2TJ473T | 1/4W 47K | 2 | |
| R205,06 | ERDS2TJ331T | 1/4W 330 | 2 | |
| R207,08 | ERDS2TJ271T | 1/4W 270 | 2 | |
| R209,10 | ERDS2FJ184 | 1/4W 180K | 2 | |
| R211,12 | ERDS2TJ123T | 1/4W 12K | 2 | |
| R213,14 | ERDS2FJ680 | 1/4W 68 | 2 | |
| R215,16 | ERDS2FJ272 | 1/4W 2.7K | 2 | |
| R217,18 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R221,22 | ERDS2FJ752 | 1/4W 7.5K | 2 | |
| R223,24 | ERDS2TJ562 | 1/4W 5.6K | 2 | |
| R225,26 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R227,28 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R229,30 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R231,32 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R233,34 | ERDS2FJ682 | 1/4W 6.8K | 2 | |
| R235,36 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R239,42 | ERDS2FJ102 | 1/4W 1K | 4 | |
| R243,44 | ERDS2TJ152T | 1/4W 1.5K | 2 | |
| R245,46 | ERDS2TJ332T | 1/4W 3.3K | 2 | |
| R249,50 | ERDS2FJ101 | 1/4W 100 | 2 | |
| R251 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R252 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R253,54 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R255,56 | ERDS2TJ123T | 1/4W 12K | 2 | |
| R257,58 | ERDS2TJ562 | 1/4W 5.6K | 2 | |
| R301 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R302 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R303,04 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R305,06 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R307,08 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R309,10 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R311,12 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R313,14 | ERDS2TJ121T | 1/4W 120 | 2 | |
| R315 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R316 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R317 | ERDS2FJ105 | 1/4W 1M | 1 | |
| R318 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R323 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R324 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R325 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R326 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R327 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R328 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R329 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R330 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R331 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R332-34 | ERDS2FJ222 | 1/4W 2.2K | 3 | |
| R335,36 | ERDS2TJ333T | 1/4W 33K | 2 | |
| R338 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R341,42 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R343 | ERDS2TJ334T | 1/4W 330K | 1 | |
| R344,45 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R360 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R364 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R365 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R371,72 | ERDS2TJ100T | 1/4W 10 | 2 | |
| R380 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R501,02 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R503,04 | ERDS2TJ333T | 1/4W 33K | 2 | |
| R505,06 | ERDS2TJ123T | 1/4W 12K | 2 | |
| R507,08 | ERDS2TJ332T | 1/4W 3.3K | 2 | |
| R509-12 | ERDS2FJ101 | 1/4W 100 | 4 | |
| ⚠ R515 | ERG1SJ182 | 1W 1.8K | 1 | |
| R551 | ERDS2FJ183 | 1/4W 18K | 1 | |
| R552 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R555 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R556 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R557 | ERDS2FJ103 | 1/4W 10K | 1 | |

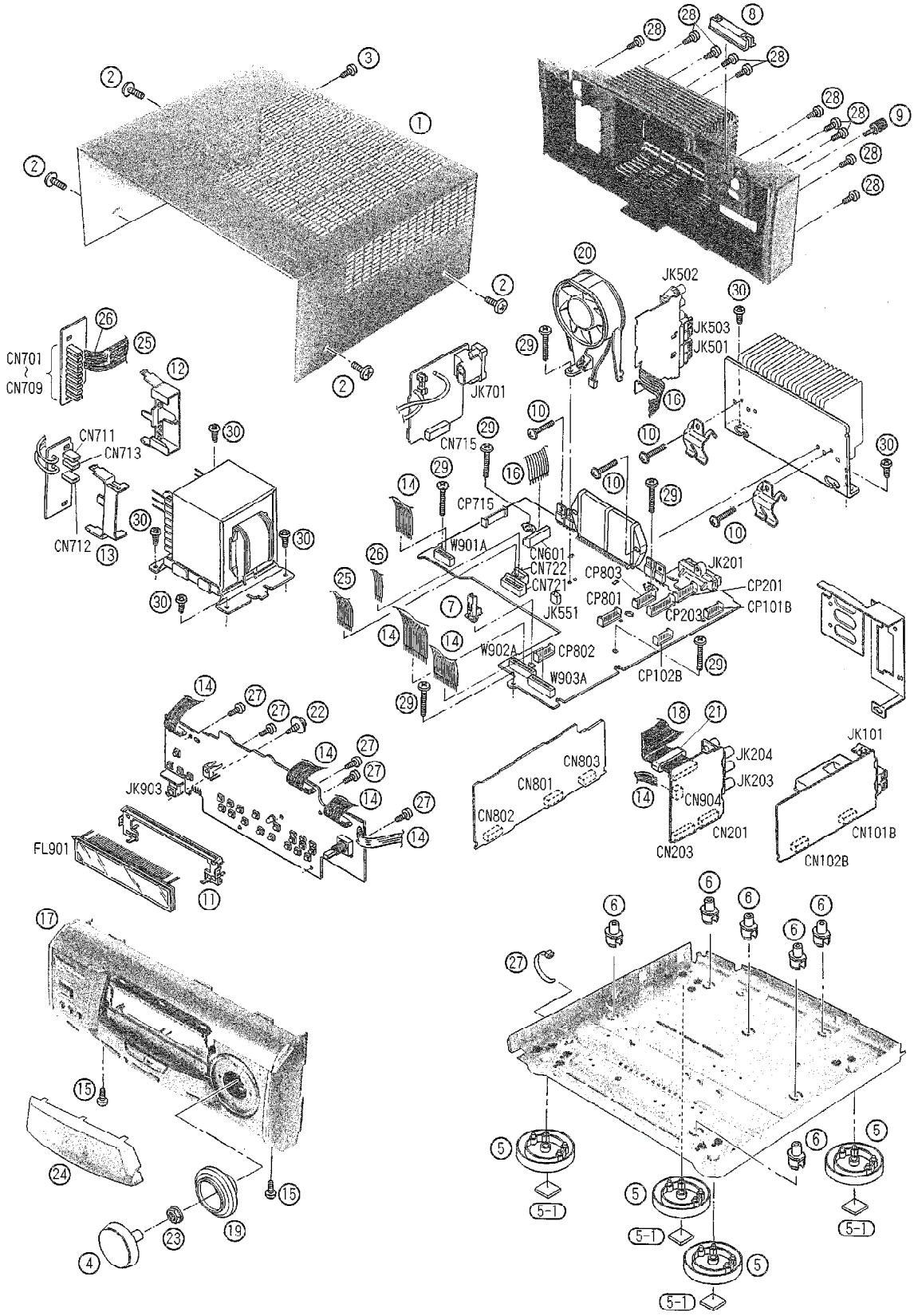
| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R558 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R559 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R560,61 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R566 | ERDS2TJ683T | 1/4W 68K | 1 | |
| R567 | ERG1SJ220 | 1W 22 | 1 | |
| R568 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R569 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R570 | ERDS2TJ225T | 1/4W 2.2M | 1 | |
| R591 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R604,05 | ERDS2FJ682 | 1/4W 6.8K | 2 | |
| R613 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R614 | ERDS2FJ124 | 1/4W 120K | 1 | |
| R615,16 | ERDS2TJ182T | 1/4W 1.8K | 2 | |
| R619,20 | ERDS2TJ563T | 1/4W 56K | 2 | |
| R621 | ERDS2TJ273T | 1/4W 27K | 1 | |
| R622 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R623 | ERDS2FJ474 | 1/4W 470K | 1 | |
| R624 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R626 | ERDS2TJ154T | 1/4W 150K | 1 | |
| R627 | ERDS2FJ124 | 1/4W 120K | 1 | |
| R628 | ERDS2FJ184 | 1/4W 180K | 1 | |
| R629 | ERDS2TJ683T | 1/4W 68K | 1 | |
| R630 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R631 | ERDS2FJ224 | 1/4W 220K | 1 | |
| R632 | ERDS2TKF5362 | 1/4W 53.6K | 1 | |
| R633 | ERDS2TKC5622 | 1/4W 56.2K | 1 | |
| ⚠ R634,35 | ERDS1FJ272 | 1/2W 2.7K | 2 | |
| ⚠ R636 | ERDS1FJ561 | 1/2W 560 | 1 | |
| R637 | ERDS2TJ154T | 1/4W 150K | 1 | |
| R638 | ERDS2TJ6841 | 1/4W 680K | 1 | |
| ⚠ R639-46 | ERDS1FJ100 | 1/2W 10 | 8 | |
| ⚠ R647,48 | ERD25FVJ2R2T | 1/4W 2.2 | 2 | |
| R649,50 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R651 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R652 | ERDS2FJ393 | 1/4W 39K | 1 | |
| R653,54 | ERDS2FJ272 | 1/4W 2.7K | 2 | |
| R655-58 | ERDS2FJ183 | 1/4W 18K | 4 | |
| R659 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R663 | ERDS2TJ154T | 1/4W 150K | 1 | |
| R665 | ERG1SJ682E | 1W 6.8K | 1 | |
| R666 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R667 | ERDS2TJ331T | 1/4W 330 | 1 | |
| R701,02 | ERDS2TJ273T | 1/4W 27K | 2 | |
| R703,04 | ERDS2FJ101 | 1/4W 100 | 2 | |
| ⚠ R707 | ERDS2FJ4R7 | 1/4W 4.7 | 1 | |
| R708 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R712 | ERDS2TJ152T | 1/4W 1.5K | 1 | |
| R713,14 | ERDS2TJ332T | 1/4W 3.3K | 2 | |
| R715 | ERDS2FJ183 | 1/4W 18K | 1 | |
| R717 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R719 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R720 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| ⚠ R721 | ERD2FCJ4R7 | 1/4W 4.7 | 1 | |
| ⚠ R722 | ERQ16NKW2R2E | 1/6W 2.2 | 1 | |
| R723 | ERDS2TJ562 | 1/4W 5.6K | 1 | |
| R724 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R725 | ERDS2TJ100T | 1/4W 10 | 1 | |
| R727 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R729 | ERDS2TJ221T | 1/4W 220 | 1 | |
| ⚠ R735 | ERQ16NKW2R2E | 1/6W 2.2 | 1 | |
| R736 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R737 | ERDS2TJ221T | 1/4W 220 | 1 | |
| R738 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R739 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R748 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R749 | ERDS2TJ271T | 1/4W 270 | 1 | |
| R751-54 | ERDS2FJ4R7 | 1/4W 4.7 | 4 | |
| ⚠ R755 | ERDS1FJ8R2 | 1/2W 8.2 | 1 | |
| ⚠ R756 | ERDS1FJ4R7 | 1/2W 4.7 | 1 | |
| R757-59 | ERDS2FJ103 | 1/4W 10K | 3 | |
| R761,62 | ERDS2TJ822T | 1/4W 8.2K | 2 | |
| R763 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R764 | ERDS2TJ331T | 1/4W 330 | 1 | |
| ⚠ R765 | ERDS1FJ561 | 1/2W 560 | 1 | |
| R766 | ERDS2FJ102 | 1/4W 1K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ⚠ R767 | ERDS2FJ4R7 | 1/4W 4.7 | 1 | |
| R768 | ERDS2FJ101 | 1/4W 100 | 1 | |
| ⚠ R791,92 | RSFMB30KT-L | PROTECTOR | 2 | |
| R801,02 | ERDS2FJ393 | 1/4W 39K | 2 | |
| R803,04 | ERDS2TJ153T | 1/4W 15K | 2 | |
| R805 | ERDS2TJ433T | 1/4W 43K | 1 | |
| R806 | ERDS2TJ333T | 1/4W 33K | 1 | |
| R807 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R808 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R809,10 | ERDS2TJ223T | 1/4W 22K | 2 | |
| R811 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R812 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R813,14 | ERDS2TJ223T | 1/4W 22K | 2 | |
| R815,16 | ERDS2TJ473T | 1/4W 47K | 2 | |
| R817 | ERDS2TJ332T | 1/4W 3.3K | 1 | |
| R818 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R819 | ERDS2FJ393 | 1/4W 39K | 1 | |
| R820 | ERDS2TJ274T | 1/4W 270K | 1 | |
| R821 | ERDS2TJ822T | 1/4W 8.2K | 1 | |
| R822 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R823 | ERDS2FJ105 | 1/4W 1M | 1 | |
| R824 | ERDS2FJ823 | 1/4W 82K | 1 | |
| R825-27 | ERDS2TJ332T | 1/4W 3.3K | 3 | |
| R828 | ERDS2FJ823 | 1/4W 82K | 1 | |
| R829,30 | ERDS2TJ223T | 1/4W 22K | 2 | |
| R831 | ERDS2FJ392 | 1/4W 3.9K | 1 | |
| R832 | ERDS2TJ182T | 1/4W 1.8K | 1 | |
| R833,34 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R835,36 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R837,38 | ERDS2TJ332T | 1/4W 3.3K | 2 | |
| R839,40 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R841 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R842 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R843,44 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R845 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R846 | ERDS2TJ122T | 1/4W 1.2K | 1 | |
| R847,48 | ERDS2FJ472 | 1/4W 4.7K | 2 | |
| R849 | ERDS2TJ122T | 1/4W 1.2K | 1 | |
| R850 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R851 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R852 | ERDS2FJ393 | 1/4W 39K | 1 | |
| R853 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R854 | ERDS2FJ393 | 1/4W 39K | 1 | |
| R855 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R856,57 | ERDS2TJ123T | 1/4W 12K | 2 | |
| R859,60 | ERDS2TJ121T | 1/4W 120 | 2 | |
| R861 | ERDS2FJ105 | 1/4W 1M | 1 | |
| R862 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R863,64 | ERDS2FJ105 | 1/4W 1M | 2 | |
| R865 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R866,67 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R868-70 | ERDS2FJ102 | 1/4W 1K | 3 | |
| R871,72 | ERDS2FJ105 | 1/4W 1M | 2 | |
| ⚠ R873 | ERD2FCJ4R7 | 1/4W 4.7 | 1 | |
| R874 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R875 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R876 | ERDS2FJ224 | 1/4W 220K | 1 | |
| R877,78 | ERDS2FJ472 | 1/4W 4.7K | 2 | |
| R879 | ERDS2TJ562 | 1/4W 5.6K | 1 | |
| R880,81 | ERDS2TJ221T | 1/4W 220 | 2 | |
| R883,84 | ERDS2TJ563T | 1/4W 56K | 2 | |
| R885,86 | ERDS2TJ332T | 1/4W 3.3K | 2 | |
| R887,88 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R889 | ERDS2TJ152T | 1/4W 1.5K | 1 | |
| R891 | ERDS2TJ331T | 1/4W 330 | 1 | |
| R893 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R894 | ERDS2TJ153T | 1/4W 15K | 1 | |
| R901 | ERDS2TJ821T | 1/4W 820 | 1 | |
| R902 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R903 | ERDS2TJ122T | 1/4W 1.2K | 1 | |
| R904 | ERDS2TJ152T | 1/4W 1.5K | 1 | |
| R905 | ERDS2TJ182T | 1/4W 1.8K | 1 | |
| R906 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R907 | ERDS2FJ272 | 1/4W 2.7K | 1 | |
| R908 | ERDS2FJ472 | 1/4W 4.7K | 1 | |

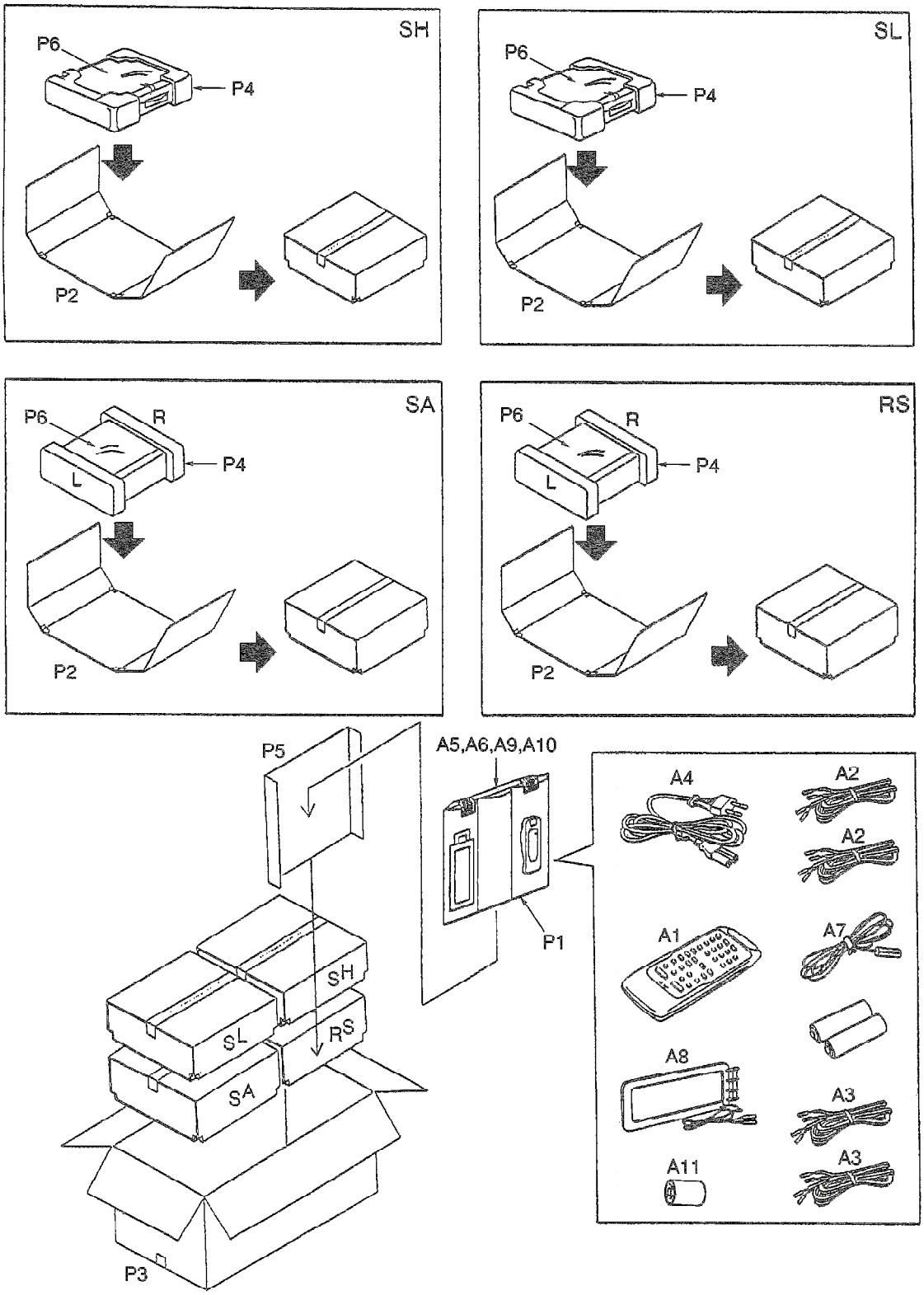
| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R909 | ERDS2FJ682 | 1/4W 6.8K | 1 | |
| R910 | ERDS2TJ123T | 1/4W 12K | 1 | |
| R911 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R912 | ERDS2TJ821T | 1/4W 820 | 1 | (EG,EP) |
| R913 | ERDS2TJ102T | 1/4W 1K | 1 | (EG,EP) |
| R914 | ERDS2TJ122T | 1/4W 1.2K | 1 | (EG,EP) |
| R915 | ERDS2TJ152T | 1/4W 1.5K | 1 | (EG,EP) |
| R919-23 | ERDS2FJ103 | 1/4W 10K | 5 | |
| R924-27 | ERDS2FJ102 | 1/4W 1K | 4 | |
| R929 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R930 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R931-36 | ERDS2FJ102 | 1/4W 1K | 6 | |
| R937 | ERDS2TJ562 | 1/4W 5.6K | 1 | |
| R938 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R939 | ERDS2TJ152T | 1/4W 1.5K | 1 | |
| R940,41 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R942 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R944 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R946 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R947,48 | ERDS2FJ104 | 1/4W 100K | 2 | (E,EB) |
| R949 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R950 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R951 | ERDS2TJ334T | 1/4W 330K | 1 | |
| R952 | ERDS2TJ106T | 1/4W 10M | 1 | |
| R953 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R954 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R955 | ERDS2TJ824T | 1/4W 820K | 1 | |
| R956-58 | ERDS2FJ102 | 1/4W 1K | 3 | |
| R959 | ERDS2TJ471T | 1/4W 470 | 1 | |
| R960 | ERDS2TJ152T | 1/4W 1.5K | 1 | |
| R961,62 | ERDS2TJ223T | 1/4W 22K | 2 | |
| R963,64 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R965 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R966 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R967 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R968 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R969,70 | ERDS2FJ472 | 1/4W 4.7K | 2 | |
| R971 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R972 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R974 | ERDS2FJ101 | 1/4W 100 | 1 | |
| R976 | ERDS2TJ223T | 1/4W 22K | 1 | |
| R977-81 | ERDS2FJ104 | 1/4W 100K | 5 | |
| R984,85 | ERDS2TJ473T | 1/4W 47K | 2 | |
| R986-88 | ERDS2FJ102 | 1/4W 1K | 3 | |
| R989,90 | ERDS2FJ393 | 1/4W 39K | 2 | |
| R991 | ERDS2TJ473T | 1/4W 47K | 1 | |
| R992 | ERDS2FJ181 | 1/4W 180 | 1 | |
| R993,94 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R995 | ERDS2FJ181 | 1/4W 180 | 1 | |
| R996,97 | ERDS2TJ151T | 1/4W 150 | 2 | |
| | | | | |
| ⚠ RL701 | RSY0030-C | RELAY | 1 | |
| | | | | |
| S901-12 | EVQPTD05Q | SW | 12 | |
| S913,14 | EVQ21405R | SW | 2 | (EG,EP) |
| | | | | |
| ⚠ T501 | RTP2N5B010 | POWER TRANSFORMER | 1 | |
| | | | | |
| VR901 | EVQVBXFK124B | V.R. | 1 | |
| | | | | |
| X102 | RLFDFT13DD | OSCILLATOR | 1 | |
| X103 | RSXC7M20S05T | OSCILLATOR | 1 | |
| X151 | RSXC4M33S02T | OSCILLATOR | 1 | (EG,EP) |
| X801 | RSXY8M00MD6T | OSCILLATOR | 1 | |
| X901 | EF0EC6004T4 | OSCILLATOR | 1 | |
| X902 | RSXD32K7S02 | OSCILLATOR | 1 | |
| | | | | |
| Z101 | RLA2Z003M-T | COMPONENT COMBINATION | 1 | |
| Z102 | RL12Z006M-T | COMPONENT COMBINATION | 1 | |
| Z120 | RAL0035 | FM FRONT END | 1 | |
| Z901 | RCDGP1U28XD | REMOTE SENSOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|

## ■ Cabinet Parts Location



## ■ Packaging




Printed in Japan
F980206000HS/KH